

# 19 Year-wise SBI

## Clerk Prelim & Mains Previous

Solved Papers  
(2023 - 2009)



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# 19<sup>Year-wise</sup> SBI Clerk Prelim & Mains Previous Solved Papers (2023 - 2009)

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# SBI Clerk (Junior Associates) Mains Solved Paper-2023

(Based on Memory)

Time : 160 minutes

Max. Marks : 200

## Reasoning Ability & Computer Aptitude

1. Six friends Deepak, Sachin, Dinesh, Dharm, Anup, Firoj are sitting around a circular table facing towards the centre. Sachin is sitting at an alternate place with respect to Deepak. Dinesh is to the immediate right of Sachin. Dharm can't sit adjacent to Deepak and Anup. Anup is to the immediate right of Deepak. Firoj is at the alternate place to the left of Anup. Who is sitting opposite of Deepak?

- (a) Dinesh (b) Sachin  
(c) Dharm (d) Firoj  
(e) Anup

2. In the following question assuming the given statements to be true, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly.

**Statements:**  $N \geq K < T$ ;  $M > L \leq H$ ;  $I \geq J \leq T$ ;  $M = G \leq I$ ;  $Z = F \leq H$

**Conclusions:**

I.  $G > L$  II.  $F > L$  III.  $F = L$

- (a) Only I is True  
(b) Only I and Either II or III are True  
(c) Only II and Either I or III are True  
(d) Only III and Either II or I are True  
(e) None is true
3. In the following question assuming the given statements to be true, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly.

**Statements:**  $J > I \leq G$ ;  $T \geq L \geq K$ ;  $A = M \geq G$ ;  $J = N > T$ ;  $K > U \leq H$

**Conclusions:**

I.  $M > I$  II.  $L < H$  III.  $I = M$

- (a) Either II or III is True  
(b) Either I or III is True  
(c) Either I or II is True  
(d) All are True  
(e) None is True
4. In the following question assuming the given statements to be true, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly.

**Statements:**  $K \leq N < R$ ;  $U = F \leq T$ ;  $H = I \leq U$ ;  $R = T$ ;  $X = B > H$

**Conclusions:**

I.  $T > H$  II.  $R \geq U$  III.  $H = T$

- (a) Only I is True  
(b) Both I and III are True  
(c) Only II and Either I or III are True  
(d) Only III and Either I or II is True  
(e) Only II is True

**DIRECTIONS (Qs. 5-9):** Read the information carefully and answer the questions given below:

There are few Buses travelling to some points. There are two junctions, 1 and 2 where 1 is west of 2. Point K is north, J is west and I is south of Junction 1. Point C is north, A is east and B is south of Junction 2.

**Note:** To reach one point to another, one must pass through at least one junction. In an expression movement is from left to right. Also distance between each point is unknown.

T\$S: Bus T is at a certain point and moves left from the junction to reach point S.

T@S: Bus S is at a certain point and moves right from the junction to reach point T.

T%S: Bus T is at point S and moves left from the junction to reach a certain point.

T#S: Bus S is at point T and moves right from the junction to reach a certain point.

T&S: Bus T is at point S and moves straight through all the junctions to reach a certain point.

T+S: Bus S is at a certain point and moves straight through all the junctions to reach point T.

T!S: Bus T is at a point H and moves through the 1st junction then takes left turn at the 2nd junction to reach a certain point.

T\*S: Bus S is at a certain point and moves through the 1st junction then takes left turn at the 2nd junction to reach point T.

5. In the given below expression, what is the final position of W with respect to its initial position?

$A+W\$B, W\&B$

- (a) North-East (b) North-West  
(c) South-East (d) West  
(e) South

6. In the given below expression what is the initial position of bus Q with respect to initial position of bus G?

$Q\%B+G$

- (a) West (b) South  
(c) North (d) East  
(e) None

7. In the given below expression, what is the final position of N with respect to initial position of P?

$N!A\#P\&C$

- (a) North-West (b) North  
(c) South-West (d) South-East  
(e) North-East

8. In the given below expression what is the initial position of bus U with respect to final position of bus Y

$U\%I\#Y\%A$

- (a) West (b) South  
(c) North (d) South-West  
(e) Can't be determined

9. 1 is added to the first digit, subtracted from the second digit, added to the third digit, and so on in the number '778446748284'. The final number is formed by interchanging the digits of the resulting number, that is the first and the second digits are interchanged, the third and the fourth digits are interchanged and so on. What is the difference between the largest two digit number in the number system and the sum of all the digits of the final number thus obtained?
- (a) 30 (b) 33 (c) 35 (d) 41  
(e) 36

**DIRECTIONS (Qs. 10-14):** Read the following information carefully and answer the questions.

A family of nine members – Z, X, V, T, R, P, N, L and J, which consists of three generations, went out for a winter picnic to a garden. All of them sat on a straight bench present in the garden, with an equal amount of distance between them, but not necessarily in the same order. Some of them sat facing the south whereas some of them sat facing the north. The number of people facing north is exactly half the number of people facing south. Also, the number of males in the family exceeds the number of females in the family by the smallest positive integer.

T, who is the brother-in-law of J, sat at one of the ends of the bench. Z, who is sat third from the right end of the row facing north, is the mother of V. L, who is married to J, sits second to the right of C, who is seated at the left end of the row and is an unmarried male. J, who is the son of Z, sits at the exact middle of the bench and faces the south. R, who is the son of L, sits second from the right end of the row and faces the same direction as his mother that is south. V, who is the wife of T, sits seventh to the right of her husband and faces south. The persons who are sat the extreme ends of the row, face the opposite directions. X is the elder brother of J and V. Z is married to P, who sits to the immediate right of J. N sits second to the right of her grandfather P and third to the right of his father T.

10. How is Z related to N?
- (a) Mother (b) Aunt  
(c) Cousin (d) Cannot be determined  
(e) Grandmother
11. Who among the following sits third to the right of J?
- (a) T (b) Z (c) R (d) P  
(e) V
12. In which position the grandchildren of P are seated with respect to him?
- (a) Second to the left and fourth to the right  
(b) Immediate neighbours  
(c) Third to the left and third to the right  
(d) Second and fourth to the right  
(e) Fourth to the left and second to the right
13. The two persons sitting at the extreme ends of the row are related as \_\_\_\_\_
- (a) Cousins (b) Sisters  
(c) Brothers-in-law (d) Cannot be determined  
(e) Brothers
14. Which of the following statements is/are not Correct?

**Statement I:** No married couple is seated side by side.

**Statement II:** R and N are cousins.

**Statement III:** Z is the mother-in-law of L.

- (a) All of the above  
(b) Both statements II and III  
(c) Only statement I  
(d) None of the above  
(e) Both statements I and III

**DIRECTIONS (Qs. 15-18):** Study the following information carefully to answer the given questions:

If 'P + Q' means 'P is the father of Q'

If 'P \$ Q' means 'P is the mother of Q'

If 'P % Q' means 'P is the brother of Q'

If 'P & Q' means 'P is the sister of Q'

If 'P # Q' means 'P is the daughter of Q'

15. In the following expression: 'A # O + N & M ? B'. What should come in the place of the question mark (?), to establish that 'M is the daughter of B'?
- (a) + (b) \$ (c) % (d) #  
(e) None of these
16. Which of the following options is true if the expression 'B & A + W # H & N % G' is definitely true?
- (a) W is the nephew of G.  
(b) A is the brother in law of G.  
(c) B is the uncle of N.  
(d) N is the aunt of W.  
(e) None of the above
17. Which of the given expressions indicates that U is the uncle of V?
- (a) U & A + B # O & V  
(b) U % A \$ B # O + V  
(c) U # A + B % O \$ V  
(d) U % A \$ B & O + V  
(e) None of these
18. How is J related to A in the expression 'C + B \$ A & K # J % T'?
- (a) Brother (b) Father  
(c) Mother (d) Grandfather  
(e) None of these

**DIRECTIONS (Qs. 19):** A passage is given and then three conclusions – I, II & III are given. You have to consider the information given in passage as true though it seems to be different from the actual facts. Then give your answer regarding the given passage that which of the conclusion/s is/are followed by it properly.

The newly opened bookstore "White Whale" has quickly gained popularity among the city's book lovers. Its extensive collection of books from various genres and periods has attracted readers of all ages. The bookstore's cozy reading books and tea shop have added to its charm. The store owner, Aakash, who has studied literature at a prestigious university, ensures that every book on the shelves is a gem.

**19. Conclusions:**

- I. "White Whale" only sells new books.  
II. The bookstore's success is due to its book collection and cozy atmosphere.  
III. Akash's expertise is in management rather than literature.



- (a) Only I (b) Only II  
(c) Both I and II (d) Both I and III  
(e) Only III
20. In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

**Statement:** Deepak the increasing reliance on AI-driven decision-making tools in the financial sector, a recent study warns that automated financial advisors may inadvertently perpetuate biased financial practices, potentially exacerbating existing disparities. These AI systems, trained on vast datasets, have shown tendencies to offer biased advice, leading to concerns about the reinforcement of discriminatory financial practices.

**Assumption:**

- I. The integration of AI-driven financial advisors may contribute to reinforcing biased financial practices.
  - II. Financial institutions are actively working to eliminate biases in AI systems used for decision-making in the financial sector.
- (a) Only I implicit  
(b) Only II implicit  
(c) Both I and II implicit  
(d) Either I or II implicit  
(e) Neither I nor II implicit
21. Read the following information carefully and answer the questions.  
In a certain code language, words and phrases are coded in accordance with the following set of rules-
1. All the consonants except N, M, and I are coded as the numbers of the even number series starting from 2. For example, Y is coded as 2, X is coded as 4, W is coded as 6 and so on.
  2. N, M, and R are coded as \$, @ and % respectively.
  3. The vowels are coded as the position of letter we get by reversing the English alphabetical series. The codes for vowels are-
  4. If the third or the fourth letter of a word is a vowel, then that vowel is coded as '#'.  
5. If the number of letters in a particular word is even, then the code for that particular word starts with an 'C' and if the number of letters is odd, then the code for that word starts with a 'A'.
- The word 'BUSINESS' is coded as?
1. C2624#&242422
  2. Z2426#&222424
  3. Z2624#&222424
  4. C2624#&222424
  5. C2426#&222424
22. The first part of the code for the word 'INTERMEDIATE' is C18&26#%@. What is the remaining part of the code for the given word?
- (a) 22618262622 (b) 22186262622  
(c) 22618222626 (d) 22626182622  
(e) 22186222626

23. The positive difference between the sum of individual digits present in the code for the first word and for the second word in the phrase 'DOCTOR ENGINEER' is?  
(a) 9 (b) 11 (c) 13 (d) 1  
(e) 3
24. If all the vowels in the word 'DEPOSIT' are shifted by two forward places according to the English alphabet series and all the consonants are shifted by four backward places according to the English alphabet series, the alphabets thus obtained are then placed in alphabetical order, starting from the left to the right. What is the difference between the position in the alphabetical series of the second letter from the right end and the fourth letter from the left end of the newly formed arrangement?  
(a) 10 (b) 12 (c) 11 (d) 2  
(e) 9

**DIRECTIONS (Qs. 25-29):** Study the given information carefully and answer the following questions.

Nine people Z, Y, X, W, V, U, T, S and Q are living on the different floors of a hotel not necessarily in the same order such that four floors remains vacant. Ground floor is numbered one, first floor is numbered two and so on.

Top and bottom floor of the hotel are Vacant. There are four floors between Z and T. Z lives above T. Two persons live between the floors on which S and W live. Z lives immediate below S. T is not living in odd number floor. T lives immediately above Vacant floor. Number of floors between the floors on which X and Q live is same as the number of floors between the ones on which T and Y live. X lives in one of the floor above Q and T. W lives immediately below vacant floor. No two vacant floor are immediate next to each other. At most three floor are there in between two vacant floor. Difference between Floor in which U and V lives is prime number with U lives above V.

25. Who lives immediately two floor below one of the vacant floor?  
(a) U (b) V (c) T (d) Y  
(e) W
26. How many persons live between Z and T?  
(a) Three (b) One (c) Four (d) Six  
(e) Five
27. How many floor are there in between Y and W?  
(a) 2 (b) 3 (c) 4 (d) 1  
(e) 5
28. Which floors are vacant?  
(a) 6, 2 (b) 2, 4 (c) 5, 1 (d) 6, 3  
(e) 2, 5
29. Four among the five are the same and thus forms a group. Who among the following does not belong to that group?  
(a) S (b) X (c) T (d) V  
(e) Z

**DIRECTIONS (Qs. 30-32):** Study the following information and answer the following questions.

P # Q means All P is Q.  
P @ Q means Some P is not Q.  
P \* Q means Only a few P is Q.  
P \$ Q means Some P is Q.  
P ^ Q means No P is Q.  
% means possibility e.g. P % Q means Some P can be Q.

30. **Statements:** Book @ Table # Mobile \$ Pen \* Copy

**Conclusions:**

- I. Table ## Pen  
 II. Book @ Mobile  
 III. Copy \* Pen  
 (a) Only I follows (b) Only II follows  
 (c) Only III follows (d) Only I and II follows  
 (e) Only I and III follows

31. **Statements:** H4 # G3 \* S6^ Y4# Q7

**Conclusions:**

- I. G3 @ Y4 II. H4## S6  
 III. S6 ## Q7  
 (a) Only I follows  
 (b) Only II and III follows  
 (c) All follows  
 (d) Only I and II follows  
 (e) Only III follows

32. **Statements:** Man \* Woman ^ House @ Car # Bike

**Conclusions:**

- I. Car @ Woman II. Man ## Bike  
 III. Bike @ Woman  
 (a) Only I follows  
 (b) Only II and III follows  
 (c) None follows  
 (d) Only I and III follows  
 (e) Only II follows

33. In the question, the statement is given followed by some inferences. You must consider the statement to be true even if it seems to be at variance from commonly known facts and then decide which inference can be drawn from the given statement.

The Net has become an indispensable tool for finding information, communicate with people around the world and manage your finance. However, it also poses many risks and challenges for young generation, such as radicalisation, race hate materials, excessive violence, and suicide. Some experts argue that parents should monitor and limit their children's internet use, while others claim that this would violate their privacy and autonomy. Christie Brinkley, a famous actress and mother of three, has revealed that she uses an app to track her kids' online activity and restrict their screen time.

**Inferences:**

- I. Christie Brinkley is a responsible parent who cares about her children's well-being and safety.  
 II. Parents have the right to interfere with their children's internet use as they see fit.  
 III. The internet is a dangerous place for children and they need constant supervision and guidance.  
 (a) Only I (b) Only II  
 (c) Only III (d) Only I and III  
 (e) Only II and III

34. In the question given below, there are two statements (I) and (II). These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

**Statement I:** Recent law changes in India have made it possible for mother's name to be used as a legitimate identification identifier on a variety of papers, including passports and PAN cards.

**Statement II:** There are international human rights treaties and conventions that India is a signatory to, which uphold gender equality.

- (a) Statement I is the cause and statement II is the effect.  
 (b) Statement II is the cause and statement I is the effect.  
 (c) Both statement I and II are independent causes.  
 (d) Both statements I and II are effects of independent causes.  
 (e) Both statements I and II are effects of some common cause.

35. The university has decided to implement a new policy in the upcoming academic session that mandates all students to renew their biometric identity cards every six months which requires physical presence of the students. This was done due to limited use of resources by alumni. What effect will this policy have?

**Possible Effects:**

- I. The policy will have a positive effect on both academic performance and engagement, as it will motivate the students to attend classes regularly, interact with their peers and instructors and take the benefit of the available resources.  
 II. The policy will have a negative effect on both academic performance and engagement, as it will create an unnecessary burden and hassle for the students, especially those who live far away or have other commitments.

- (a) Only I (b) Only II  
 (c) Either I or II (d) Neither I nor II  
 (e) Both I and II

36. In the question given below, there is a statement followed by four courses of action. On the basis of the situation given you have to decide which of the suggested course(s) of action logically follow(s) for pursuing. There is an increase in the number of waterborne diseases in Area W of Country H because the people of that area are using tap water without any filtration.

**Course of action:**

- I. The supply of water in area W should be reduced.  
 II. To save from waterborne diseases public awareness programme should be arranged so that people can be aware of using clean water.  
 (a) If only I follows  
 (b) If only II follows  
 (c) If either I or II follows  
 (d) If neither I nor II follows  
 (e) If both I & II follow

37. **Statement:** To manage the heavy workload, the workers of company X are demanding to increase the number of workers. The workers have also threatened the company to go on strike if the demand is not fulfilled by the company. Which of the following will strengthen or weaken the above statement?

- I. For the last few years, due to the heavy workload, the workers have been working extra hours and did not take any leave.
- II. In the last six months, the workers of company X have repeatedly taken rest in between the work, thus the work is not completed.
- (a) I is weak and II is strong  
(b) Both are strong  
(c) Both are weak  
(d) I is strong and II is weak  
(e) Either I or II is weak
38. Read the given information and answer the following questions:  
Our global civilization is said to be enhanced by variety. Sadly, despite recent biological evidence that has categorically refuted such views, theories of racial prejudice continue to be spread and put into reality. Numerous people suffered unimaginable pain as a result of slavery, the slave trade, imperialism, and colonialism. Which of the given statements will weaken the argument?
- (a) Millions of people from the weaker segments of society now have voice and empowerment thanks to the institutions of our democratic polity and the growth of literacy.  
(b) In comparison to the many advantages one person enjoys, people from various racial and ethnic origins may enjoy privileges.  
(c) A National Committee should be established, and they should be encouraged by the general support of the legal protections against discrimination in the constitution and other laws.  
(d) The internet and social media have made the globe a more interconnected place. However, some people are using this technical advancement to foment racial animosity.  
(e) The government has established an institutional and administrative framework to address various types of discrimination within our democratic system
39. In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.  
**Statement:** A popular food blogger, known for her Instagram account 'Tasty Bites Explorer,' was recently harassed by a man in a busy marketplace in Mumbai. The entire incident was captured on her Instagram Live and quickly gained attention. In the video, the man tries to strike up a conversation with the blogger, asking if she would like to join him for coffee. However, his seemingly harmless approach turns uncomfortable as he makes inappropriate remarks about the blogger's appearance. Despite her attempts to ignore him, the man persists in following her and making lewd comments.  
**Assumption:**
- I. The behaviour of the man not only violated the blogger's right to privacy and dignity but also highlighted the broader societal issue of gender-based harassment that needs to be urgently addressed.
- II. Incidents like these contribute to a negative perception of safety in public spaces for women, and such occurrences tarnish the reputation of the city.
- (a) Only I implicit  
(b) Only II implicit  
(c) Either I or II implicit  
(d) Both I and II implicit  
(e) Neither I nor II implicit
40. Read the statement below followed by two conclusions and decide which of the assumptions is implicit from the statement.  
**Statement:** The college authorities have decided to give seven grace marks in the Mathematics paper to all the second-year students as the performance of these students in Mathematics was below their expectations.  
**Assumptions:**
- I. Majority of the students in second-year may still fail in Mathematics even after giving them grace marks.  
II. Majority of the students in second-year may now pass in Mathematics after giving grace marks.
- (a) Only assumption I is implicit  
(b) Only assumption II is implicit  
(c) Either assumption I or II is implicit  
(d) Neither assumption I or II is implicit  
(e) Both assumptions I and II are implicit
41. Six people from three generations of a family live in a house. How many males are in the family?  
**Statement I** – K is the daughter of G, who is married to H. J is the father of a son and a daughter. F, the sister of H, is unmarried. H is the son-in-law of I.  
**Statement II** – J is the father of H, who is married to G. I is the mother of G, who has a daughter. F is the aunt of K. J has two children, a son, and a daughter.
- (a) Only Statement I alone is sufficient to answer the question  
(b) Only Statement II alone is sufficient to answer the question  
(c) Both statements together are sufficient to answer the question  
(d) Either statements are sufficient to answer the question  
(e) Neither statements are sufficient to answer the question
42. The question below consists of two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the three statements and give answer: Six boxes namely – N, M, L, K, J and I are kept one above other, each box contains different Vegetables viz. Tomato, Potato, Carrot, Onion, Corn and Garlic. Box M is kept third from top at a gap of one box from one that contains Onion. Box K contains Corn, which is neither kept adjacent to box M nor adjacent to the one that contains Onion, is kept just above one that contains Potato. How many boxes are kept below one contains Garlic?
- I. Box which contains Carrot and Onion are kept together. Box I, which neither contains Carrot nor contains Onion, is kept at a gap of two from box N. Box which contains Carrot is kept at a gap of three from box J.

- II. I which contains Tomato is kept at a gap of two from box N, which neither contains Carrot nor kept adjacent to box K. Only two boxes are kept between box J and one which contains box Garlic.
- (a) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (c) If the data either in statement I alone or in statement II alone is sufficient to answer the question.
- (d) If the data in both statement I and II together are not sufficient to answer the question.
- (e) If the data in both statement I and II together are necessary to answer the question.

**DIRECTIONS (Qs. 43-45):** Study the following information carefully and answer the questions given below.

A arrangement machine, when given a particular input, rearranges it following a particular rule. The following is an illustration of the input and the steps of arrangement.

**Input:** LOVE, HOPE, FREE, GIFT, BEST, CAT, MAT, MAN, TOP

Step I: HOPE, FREE, GIFT, BEST, ELOV, ACT, MAT, MAN, TOP

Step II: FREE, GIFT, BEST, EHOP, ELOV, ACT, MAT, MAN, TOP

Step III: GIFT, BEST, EEFR, EHOP, ELOV, ACT, AMT, AMN, TOP

Step IV: BEST, FGIT, EEFR, EHOP, ELOV, ACT, AMT, AMN, OPT

Step V: BEST, FGIT, EEFR, EHOP, ELOV, ACT, AMT, AMN, OPT

Step V is the last step of the rearrangement. As per the rules followed in the above steps, find out the answer to each of the following questions for the Input given below.

**Input:** CALM, TRUE, COOL, SAFE, PLAY, CRY, LET, TOE, DOG

43. Which of the following is the third element from the left end in step V?
- (a) ERTU (b) AEFS  
(c) ACLM (d) CLOO  
(e) ALPY
44. What is the position of "PLAY" from "ERTU" in step III?
- (a) 3rd to the left (b) 2nd to the left  
(c) Immediate left (d) 3rd to the right  
(e) None of these
45. Which word comes exactly between "AEFS" and "ERTU" in step V of the given input?
- (a) DGO (b) CLOO  
(c) ELT (d) ACLM  
(e) ALPY
46. In which step are the elements 'PLAY CLOO ERTU' found in the same order?
- (a) Second (b) Fourth  
(c) Third (d) Fifth  
(e) None of the above

47. Which of the following combinations represents the first two and last two elements in step IV of the given input?
- (a) SAFE, PLAY and EOT, DGO  
(b) PLAY, AEFS and EOT, DGO  
(c) PLAY, AEFS and TOE, DOG  
(d) CLOO, SAFE and CRY, ELT  
(e) ALPY, AEFS and EOT, DGO
48. Seven persons namely – Ravi, Sonu, Kavita, Sameen, Tanu, Manu and Shyam have different salaries, Salary of how many people are less than Sonu?
- I. Salary of Ravi is more than Kavita and Sonu but not as much as Shyam. The salary of Kavita is more than Tanu and Sameen but not as much as Ravi and Shyam. Salary of Tanu is only more than two Person and salary of Manu is lowest.
- II. Salary of Sonu is more than that Shyam and Tanu but not as much as Shyam and Kavita . The salary of Manu is more than Sameen and Manu but not as much as Ravi and Kavita . Salary of Shyam is the highest, and Salary of Sameen is not lowest.
- (a) If the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question. b) Ic) d) . e)
- (b) If the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.
- (c) If the data either in Statement I alone or in Statement II alone is sufficient to answer the question.
- (d) If the data in both the Statements I and II together are not sufficient to answer the question
- (e) If the data in both the Statements I and II together are necessary to answer the question
49. Study the following information carefully and answer the given questions.
- Seven persons Z, Y, X, W, V, U, and T are living in an eight-storey building where the bottommost floor is numbered as 1 and the floor just above it as 2 and so on. One floor is vacant. Only one person lives on one floor. In which floor does U live?
- I. One of the odd numbered floors is vacant. X lives in an odd floor below W who lives in an even numbered floor but not on the top floor. W is not immediate above X. 3 people lives between W and T.
- II. Number of floors above V is one more than the number of floors below V. The number of persons live between Z and V is same as the number of persons live between V and T. Z lives on the top floor. Y lives immediate above T.
- (a) I is alone sufficient  
(b) II is alone sufficient  
(c) Both statements are not sufficient  
(d) Either I or II alone sufficient  
(e) Both statements are needed to answer the question.
50. In the following question, five different words are given in the options. Along with each word, positions of four letters in that word are given and the positions of the letters are counted from the left end of the word. Four lettered meaningful word can be formed from the letters



corresponding to the positions given in each option without jumbling the letters. Which of the following options will give a meaningful English word?

- (a) Claustrophobia – 2, 7, 12, 14  
 (b) Photosynthesis – 2, 7, 8, 12  
 (c) Incomprehensive – 3, 4, 10, 12  
 (d) Notwithstanding – 4, 5, 11, 12  
 (e) Parallelogram – 6, 7, 12, 13

### Quantitative Aptitude

**DIRECTIONS (Qs. 51-55):** The given table shows the number of Tricycle sold in different shops P, Q, R and S and Cost price of each article, Markup percentage of each article and discount amount of each article in the same shops.

| Shops | Sold Tricycles | Cost price of each Tricycle | Markup % of each Tricycle | Total Discount Amount |
|-------|----------------|-----------------------------|---------------------------|-----------------------|
| P     | $(x + 5)$      | $4x$                        | 40                        | 210                   |
| Q     | $y$            | $(y + 5)$                   | 20                        | $3y$                  |
| R     | $x$            | $4x$                        | 150                       | $117x$                |
| S     | $(y + 10)$     | $y$                         | 80                        | $27y$                 |

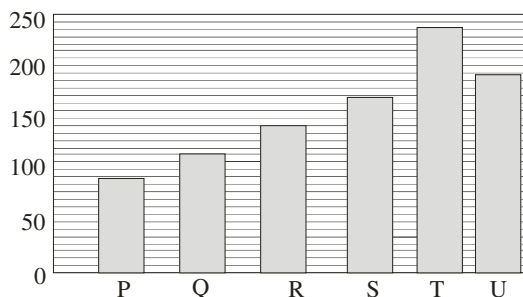
**Note:**

- (i) Selling price of Tricycle in shop P is equal to selling price of Tricycle in shop R.  
 (ii) Selling price of Tricycle in shop Q is equal to selling price of Tricycle in shop S.  
 (iii) The average cost price of Tricycle in each shops P, Q and R is 135.
51. If the cost price of Tricycles in shops S to T are in the ratio 4 : 5 and the number of Tricycles sold in shop T is  $(y - 120)$ , Markup percentage of Tricycles in shop T is  $(x + 5)\%$ . If the total discount amount of Tricycles in shop T is Rs. 4800. Find which of the following conditions are true?
- I. Selling price of the Tricycles in shop T is ₹ 265.  
 II. Total revenue generated by the shop T by selling all the Tricycles in shop T is ₹ 12500  
 III. Number of Tricycles sold in shop T is 70.
- (a) I only (b) II only  
 (c) III only (d) I and II only  
 (e) I and III only
52. Find the difference between the Sum of the marked price and sum of the selling price of each Tricycles sold in the shop P, Q, R and S.
- (a) ₹ 156.3 (b) ₹ 152.7  
 (c) ₹ 141.3 (d) ₹ 147.3  
 (e) ₹ 149.3
53. If the number of Tricycles sold in the shop Q 20% are defective and sold at Rs. 2 more than the usual discount. Find the total discount amount given by Shop Q by selling all the Tricycles
- (a) 580 (b) 550  
 (c) 600 (d) 680  
 (e) 590

54. If the marked price of each Tricycle in shop R is Rs. \_\_\_\_\_ and the average number of Tricycle sold in shops R and U is 23 and the total number of Tricycles sold in shop U is \_\_\_\_\_ then which of the following conditions satisfy the same order.
- (i) 250 and 21 (ii) 250 and 30  
 (iii) 250 and 24  
 (a) I only (b) III only  
 (c) II only (d) I and II only  
 (e) None of these
55. If the total number of Tricycles sold in shop P and R together is 55. Find which of the following contexts is true.
- I) The difference between the total revenue received by the shop P and R is Rs. 665.  
 II) The marked price of each Tricycle in shop R is Rs. 250.  
 III) The selling price of each Tricycle in shop P is Rs. 135.
- (a) I only (b) II only  
 (c) I and II only (d) II and III only  
 (e) I and III only
56. Given that the combined ages of two individuals, J and K is  $a^2$  years, and the difference of their ages is '72 – 12a' years (with K being younger), and also the ratio of J's age two years ago to J's age ten years from now is 4 : 7. can you determine the average between J's age three years from now and K's age seven years ago?
- (a)  $a + 12$  (b)  $a + 10$   
 (c)  $a + 15$  (d)  $a + 8$   
 (e) None of these
57. In a container of capacity 500 ml a mixture of juice and water is kept. Juice is 250 ml and water is 'a' ml, Now 70 ml of mixture is taken out without replacement and the process is repeated one more time, the container is now completely filled by adding water. If the ratio of milk and water in the final mixture is 3 : 7. What is the quantity of water added?
- (a) 250 ml (b) 300 ml  
 (c) 290 ml (d) 260 ml  
 (e) 80 ml
58. In the given question, two quantities are given, one as Quantity I and another as Quantity II. You have to determine relationship between two quantities and choose the appropriate option.
- Umesh bought two articles A at Rs.  $x$  and article B at ₹  $x + 50$ . He sold article A at 20% profit and article B at 10% loss, and earned Rs. 45 as profit on the whole deal.
- Quantity I :** Profit earned by Umesh on selling Article A (in Rs.)  
**Quantity II :** Loss incurred (in ₹) when an article which costs Rs. 560 is sold at 25% loss.
- (a) If Quantity I  $\geq$  Quantity II  
 (b) If Quantity I  $>$  Quantity II  
 (c) If Quantity I  $<$  Quantity II  
 (d) Quantity I = Quantity II or the relationship cannot be established from the information that is given  
 (e) Quantity I  $\leq$  Quantity II

59. In this question, two equations are given. Answer the questions based on given equations:  
 I.  $2x^2 - Mx + 10 = 0$   
 a and b are two roots of the given equation and their sum is  $a + b = 4.5$  ( $a > b$ )  
 II.  $4y^2 - Ny + 19 = 0$   
 c and d are two roots of the given equation such as one root is 40% of the largest root of first equation. ( $c > d$ )  
 Which of the following statements is are correct?  
 I. Values of  $a + c = b + d$   
 II.  $c + d = 5.75$   
 III.  $a > b > c > d$   
 (a) Only I (b) Only III  
 (c) Only II (d) All of these  
 (e) None of these
60. Rohan invested some money in the bank at the rate of 20% compounded annually and after 2 years received interest as Rs. 8800. If the man invested double of the principal in another scheme at the rate of 10% compounded annually for 2 years then find the compound interest earned by him in the second scheme  
 (a) Rs. 8300  
 (b) Rs. 8600  
 (c) Rs. 8200  
 (d) Rs. 8400  
 (e) Rs. 8700
61. A box contains 10 yellow, 8 green and some white balls. Find the probability of getting three different coloured balls when 3 balls are drawn from box at random if total number of balls in the box is 32  
 (a)  $1/15$  (b)  $3/31$   
 (c)  $7/31$  (d)  $3/17$   
 (e) None of these

**DIRECTIONS (Qs. 62-66):** The bar graph shows the total number of messages (Inbound and Outbound) from six different BPOs



**Note :**

- (a) Inbound Messages = International (IB) + Domestic (IB)  
 (b) Outbound Messages = International (OB) + Domestic (OB)

The given table shows the ratio between inbound messages and outbound messages

| BPOs | Ratio between Inbound Messages to Outbound Messages |
|------|-----------------------------------------------------|
| P    | 11:05                                               |
| Q    | 4 : x                                               |
| R    | 19:05                                               |
| S    | -                                                   |
| T    | 5:06                                                |
| U    | 3:05                                                |

62. If the number of males to females bounded the inbound messages in K are in the ratio 10 : 9. And the total number of males bounded the all the messages in R is 70. Find the difference between the number of females bounded the inbound messages and outbound messages in the centre R.  
 (a) 50 (b) 40  
 (c) 30 (d) 35  
 (e) 45
63. Inbound and Outbound messages of S are in the ratio 23 : 7. Then Inbound messages of S are  $(a + 3)\%$  more than total messages made by Q. If the ratio of domestic inbound messages and International inbound messages of R is  $(a + 4) : 3$ . Find International Inbound messages of R.  
 (a) 15 (b) 24  
 (c) 18 (d) 20  
 (e) None of these
64. The total international messages by P is 41 and the ratio of Inbound domestic messages and outbound domestic messages are in the ratio 4 : 5 : 2. Find the ratio of inbound domestic messages by P and outbound messages by T.  
 (a) 23 : 95 (b) 17 : 86  
 (c) 9 : 40 (d) 32 : 99  
 (e) 24 : 89
65. Total International messages (Inbound and Outbound) by Q and total International messages (Inbound and Outbound) by S are in the ratio 26 : 45 and total Domestic messages (Inbound and Outbound) by Q are 20% Less than total Domestic messages (Inbound and Outbound) by S. Find the Difference between international messages (Inbound and Outbound) by Q and Total Inbound messages (International and Domestic) by U.  
 (a) 7 (b) 8  
 (c) 9 (d) 10  
 (e) None of these
66. If total outbound messages by Q are 33.33% more than  $(b + 3)$ . Where b is the value of Inbound messages by U. The find the value of a, if a is the smaller root of equation;  $m^2 - xm + 108 = 0$   
 (a) 11 (b) 8  
 (c) 9 (d) 4  
 (e) None of the se
67. The monthly income of 'A' and 'B' are in the ratio of 1 : 3 respectively. 'A' spends 'x' of his monthly income and saves the remaining ₹ 12480. The sum of the monthly

- expenditure of 'A' and 'B' is ₹ 5920. If the monthly saving and expenditure of 'B' is the ratio of 5:7 respectively then find the average monthly income of 'A' and 'B' together?
- (a) ₹ 52000 (b) ₹ 54000  
(c) ₹ 56000 (d) ₹ 58000  
(e) None of these
68. Yuvi and Ekansh started a business with the investment of ₹ 30000 and ₹ 36000 respectively, after 6 months Yuvi withdrawn 20% of his initial investment and Kartik started the business with the investment of ₹ X. At the end of the year, the total profit of the business is ₹ 132000 and profit share of Ekansh is ₹ 48000 and find the value of X?
- (a) 72000 (b) 76000  
(c) 80000 (d) 64000  
(e) None of these
69. In this question, two equations are given, answer the questions based on given equations:  
I.  $x^2 - 12x + 32 = 0$   
II.  $x^2 - 26x + 169 = 0$   
If one of the roots of given equation is taken from both equation, a new equation is formed which is:  
(a)  $x^2 + 10x + 36 = 0$  (b)  $x^2 - 17x + 52 = 0$   
(c)  $x^2 - 17x - 52 = 0$  (d)  $x^2 + 21x - 104 = 0$   
(e)  $x^2 - 16x + 63 = 0$
- 
- DIRECTIONS (Qs. 70-71):** What approximate value should come in place of the question mark (?) in the following question?
70.  $? \times 8.23 + 44.89\% \text{ of } 80.31 = 32.92 \times 4.14$   
(a) 8 (b) 12  
(c) 16 (d) 20  
(e) 14
71.  $25.12 \times 4.29 \div 5.19 + 16.16 + (7.91)^2 = ?$   
(a) 10 (b) 8  
(c) 9 (d) 5  
(e) 12
- 
- DIRECTIONS (Qs. 72-75):** Read the following information carefully and answer the questions given below.
- The marked price of an article K and M is 50% above its cost price and the selling price of article J is half of the marked price of article K. The ratio of the marked price of article M and the selling price of article J is 7 : 3. The sum of the marked price of the article L and M is Rs. 810. The profit of article K is Rs. 194 less than the cost price of M. The discount offered on article K is 15%.
72. If the Cost price of the article M is increase by 25% and the discount percentage of the article M is 20% then find which of the following is true in the given following statements?
- I. New cost price of the article M is Rs. 325  
II. Loss of Rs. 13 occurred  
III. Selling price is Rs. 332  
(a) I and II only (b) I only  
(c) II only (d) III only  
(e) I and III only
73. The profit obtained on article L is ₹ 36 and the discount offered on article L is 20%. Find the difference between the selling price of article J and the cost price of article L.  
(a) ₹ 110 (b) ₹ 118  
(c) ₹ 135 (d) ₹ 120  
(e) None of these
74. Selling price of article J to the selling price of article N are in the ratio 3 : 5. The Marked price of article N is ₹ 50 more than its selling price. If the cost price of the article N is Rs. 10 less than the cost price of the article M. If J is sold at 20% profit. Find sum of the cost price of article N. Marked price of article N and Cost price of article J.  
(a) Rs. 750 (b) Rs. 850  
(c) Rs. 900 (d) Rs. 650  
(e) None of these
75. If the profit obtained on article M is Rs. 25 less than the profit obtained on article K, then the discount offered on article M is  
(a) 24.67% (b) 26.89%  
(c) 22.82% (d) 21.25%  
(e) None of these
76. The ratio of the cost price of two chairs is 5 : 9 one chair, in which cost price is less, is sold at profit of 24% and the other one is sold for Rs. 2196 more than that of the first one, if the overall profit earned after selling both the chairs at 6%. What is the difference of cost price of the two chairs ?  
(a) 3150 (b) 3600  
(c) 1800 (d) 2700  
(e) None of these
77. The ratio between the radius of the circle and the length of the rectangle is 7 : 22 and the breadth of the rectangle is equal to the base of the triangle. The area and height of the triangle is 2100 cm<sup>2</sup> and 60 cm. The perimeter of the rectangle is 360 cm, then, find the perimeter of the circle?  
(a) 220 cm (b) 340 cm  
(c) 450 cm (d) 550 cm  
(e) None of these

**DIRECTIONS (Qs. 78-79):** What approximately value should come in the place of the question mark (?) in the following equation?

78.  $18.17 \times 4.23 + (24.97 \div 5.31) - 33.24 = ?$   
(a) 50 (b) 51  
(c) 44 (d) 40  
(e) 47
79.  $70.39 - 20.19 \times 1.91 + 36.41 \times 1.17 = ?$   
(a) 60 (b) 66  
(c) 76 (d) 73  
(e) 81
80. A boat travels 1.85 km downstream in 18 hours, while a person can run S km in 24 hours. The speed of the boat in still water exceeds the running speed of the person by 4 km/h, and the speed of the current is 3 km/h. What is the speed of the boat in still water?  
(a) 5 (b) 12  
(c) 9 (d) 6  
(e) 10

2023-10

SBI Clerk (Junior Associates) Mains Solved Paper-2023

81. A train takes  $t$  seconds to pass a pole and  $t + 12$  seconds to pass a platform. The combined length of the train and the platform is 540 meters and the train's length is  $L$  meters. If the train's length is reduced by 30 meters, it then takes 18 seconds to cross a pole. Determine the value of  $t$ .
- (a) 23.5 (b) 19.7  
(c) 16.8 (d) 20.5  
(e) None of these

**DIRECTIONS (Qs. 82-83):** The Series contains one wrong and one missing number.

0.5, 6, 84, 840, 6720, 40320, a

82. What is the value of  $a$  - 112809  
(a) 41000 (b) 43245  
(c) 48471 (d) 52231  
(e) 45325
83. Find the wrong number of the given series.  
(a) 84 (b) 6  
(c) 6720 (d) 840  
(e) 40320

**DIRECTIONS (Qs. 84-86):** In this question, two equations are given. Answer the questions based on given equations:

- I.  $a, b, c, 707, 563, 627, 611$   
II.  $x, x + 18, 433, 451, 469, y$
84. Which of the following are true?  
(i)  $y = a + b$  (ii)  $y = 446 + \left| \frac{1}{11} \right| C$   
(iii)  $x + b = \frac{1}{2}(y)$   
(a) Only (ii) (b) Only (iii)  
(c) Only (i) and (iii) (d) Only (ii) and (iii)  
(e) All of these
85. If the sum of  $z + y = 576$ , then find the average of 'c' and 'z'.  
(a) 300 (b) 270  
(c) 220 (d) 200  
(e) 250
86. Had 'a' been divided by the second largest single digit prime number, then resultant would be....  
(a) 45 (b) 38  
(c) 55 (d) 50  
(e) 40
87.  $3x^2 - 26x + n = 0$   
Roots of the given equation are  $l$  and  $m$ , where,  $l > m$  and  $m = 8/3$ .  
Which of the following/s is/are true?  
I. HCF of  $n$  and  $l$  is equal to 50% more than  $m$   
II. Value of  $n$  is a perfect cube  
III.  $n$  is multiple of  $l$ .  
(a) Only I and II (b) Only II  
(c) Only II (d) Only I and III  
(e) All of these

**DIRECTIONS (Qs. 88-91):** In the question, two quantities (I) and (II) are given. You have to solve both quantities to establish the correct relation between Quantity (I) and Quantity (II) and choose the correct option.

88. **Quantity I:**  $50x + 3^2 \times \sqrt[3]{64}$  such that  $2 \leq x \leq 4$

**Quantity II:**  $\sqrt[3]{216y^3} - 2y^4 + 50y$  such that  $8 \leq y \leq 10$

- (a) Quantity (I) > Quantity (II)  
(b) Quantity (I) < Quantity (II)  
(c) Quantity (I)  $\geq$  Quantity (II)  
(d) Quantity (I)  $\leq$  Quantity (II)  
(e) Quantity (I) = Quantity (II) or No relation can be established
89. **Quantity I:** Pipe P can fill a tank in 3 hours. Pipe Q can fill the same in 4 hours while Pipe R can fill the same tank in 5 hours. What is the time taken when all of them works together?  
**Quantity II:** Two pipes P and Q can fill a tank in 8 hours. While Pipe Q and Pipe R can fill the same in 10 hours. Pipe R and Pipe S fill the tank in 15 hours. Pipe P and Pipe S can fill the same tank in 30 hours. Find the time taken by them to fill the tank together.  
(a) Quantity I > Quantity II  
(b) Quantity I < Quantity II  
(c) Quantity I = Quantity II or no relation can be established  
(d) Quantity I  $\leq$  Quantity II  
(e) Quantity I  $\geq$  Quantity II
90. **Quantity I :** Perimeter of triangle cut, of a square of side 22 cm, four isosceles triangles are cut from its four corners. Area of remaining part is 196 sq. cm. Take  $\sqrt{2} = 1.4$   
**Quantity II :** Percentage increase in area of rectangle. Increase in length and breadth are 20% and 15% respectively.  
(a) Quantity I  $\geq$  Quantity II  
(b) Quantity I  $\leq$  Quantity II  
(c) Quantity I = Quantity II or no relation can be established  
(d) Quantity I > Quantity II  
(e) Quantity I < Quantity II
91. Average of P and Q is 12, while the sum of Q and R is 12.  $14 \geq (P, Q) \geq 8$  and  $10 \geq Q$  and  $R \geq 2$ ; Given P, Q, R are integers.

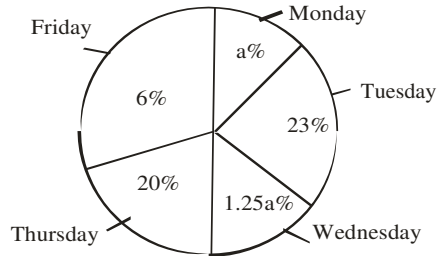
**Quantity I :** Value of  $PQ - 54$

**Quantity II :**  $(P + R) \times Q$

- (a) Quantity I  $\geq$  Quantity II  
(b) Quantity I  $\leq$  Quantity II  
(c) Quantity I = Quantity II or no relation can be established  
(d) Quantity I > Quantity II  
(e) Quantity I < Quantity II



**DIRECTIONS (Qs. 92-93):** The following pie chart shows the percentage distribution of the number of mobiles sold in a shop in five different days Monday, Tuesday, Wednesday, Thursday and Friday. Total number of mobiles sold = 400



**Note:** Difference between number of mobiles sold on Monday and Wednesday is 12.

92. Number of mobiles sold on Tuesday and Monday is what percentage of the number of mobiles sold on all the remaining days.
- (a) 56.87% (b) 50.78%  
(c) 42.89% (d) 53.84%  
(e) None of these
93. If the cost of each mobiles on Friday is ₹P and cost of each mobiles on Thursday is ₹(P - 10) if the total cost earned by the shop by selling mobiles on the both the day is ₹9200. If the cost of each mobiles on Monday's ₹(P - 20). Find the total amount earned by the shop on selling mobiles on Monday.
- (a) ₹1280 (b) ₹1360  
(c) ₹1440 (d) ₹1560  
(e) None of these
94. Number of mobiles sold on Wednesday is 66.667% of the number of mobiles present in the shop on Wednesday initially and the number of mobiles sold on Thursday is 33.33% of the number of mobiles present in the shop initially. Find the ratio between the number of unsold mobiles on Wednesday and the number of unsold mobiles in the shop on Thursday
- (a) 2 : 11 (b) 2 : 13  
(c) 3 : 16 (d) 3 : 17  
(e) None of these
95. Average number of mobiles sold on Monday and Sunday is 8 less than the number of mobiles sold on Monday and number of mobiles sold to unsold on Sunday are in the ratio 8 : 5. Find the total number of mobiles unsold on Sunday.
- (a) 28 (b) 25  
(c) 35 (d) 20  
(e) 44
96. Difference between the mobiles sold on Tuesday and Monday is twice the difference between the number of mobiles sold on Wednesday and Saturday. If the ratio of number of mobiles sold to unsold on Saturday is 19 : 15. Then find the number of mobiles unsold Saturday. (Note: Number of mobiles sold on Wednesday is more than the number of mobiles sold on Saturday).
- (a) 52 (b) 38  
(c) 30 (d) 44  
(e) None of these

97. Average weight of four friends 'J', 'K', 'L' and 'M' is a kg. When 'M' is replaced by 'N' then the average increases by 14.25 kg. When 'L' is replaced by 'N', average increases by 6.75 kg. If the average weight of 'L', 'M' and 'N' is 74 kg then the weight of 'N' is how much percent more than that of 'L'?

- (a) 30% (b) 36%  
(c) 42% (d) 45%  
(e) None for these

**DIRECTIONS (Qs. 98):** The following questions are accompanied by two or three statements. You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

98. What is the present age of Father?
- I. The difference between the ages of Father and Son is 45 years.  
II. The present age of Son is  $\frac{1}{4}$ th of the present age of the Father.  
III. The sum of the ages of Father and Son is 75 years.
- (a) Any two of them (b) Only I and III  
(c) Only I and II (d) All I, II and III  
(e) None of these
99. If a wire is cut into three pieces of unequal lengths, what is the length of the shortest of these pieces of wire?
- Statement I.** The combined length of the longer two pieces of wire is 35 meters.  
**Statement II.** The combined length of the shorter two pieces of wire is 30 meters.
- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.  
(b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.  
(c) The data in statement I alone or in statement II alone is sufficient to answer the question.  
(d) The data in both statements I and II are not sufficient to answer the question.  
(e) The data in both statements I and II together are necessary to answer the question.
100. Two friends P and Q together can complete a piece of work in 20 days. In how many days can P alone complete the piece of work?
- Statement I.** Q alone completes half of the work in 25 days.  
**Statement II.** The efficiency of P is 50% more than that of Q.
- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.  
(b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.  
(c) The data in statement I alone or in statement II alone is sufficient to answer the question.  
(d) The data in both statements I and II and not sufficient to answer the question.  
(e) The data in both statements I and II together are necessary to answer the question.

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## English Language

**DIRECTIONS (Qs. 101-105):** Read the passage carefully and answer the questions given below it. There are some blanks given in the passage based on which some questions are framed, and some words are highlighted as well to help you answer the other questions.

The revised protocol for the extended period of lockdown that is now scheduled to end on May 3 indicates it's .....(A) rollback starting from April 20. (B) A partial **containing**(1) of the economy is being proposed, but a lot will **depend**(2) on the extent of success in **reopening**(3) the **spread**(4) of the COVID-19 pandemic in particular areas. (C) State and local administrations could continue with a tighter level of control on economic and social activities if required, according to the Centre's guidelines announced on Wednesday. It is now clear that the battle against the pandemic will be drawn out, and.....(D) in life will have to wait until a vaccine or a treatment line is found. It is impossible to keep the economy shut and people at home indefinitely. The proposed relaxations are, hence, a step forward. Industries outside city limits, certain types of construction both in rural and urban areas, segments of the service sector, and manufacturing partially will reopen after April 20. (E) Small service **providers**(a), such as electricians, **plumbers**(b), IT repair, motor mechanics and carpenters, will be allowed to **oparate**(c), which will help them and those who need to **hire**(d) them. It will be a good idea to add tailors to that list, an essential service now that masks are mandatory in public and workplaces.

101. Which of the following words given in the options should come at the place marked as (A) in the above passage to make it grammatically correct and meaningful? Also, the word should fill in the two sentences given below to make them contextually correct and meaningful?  
(I) She ..... on trembling legs.  
(II) She .....at the sensation, taking in the crumbled world around her.  
(a) staggered (b) conjure  
(c) evoke (d) quell  
(e) None of these
102. The sentence in (B) has four words given in bold. Amongst the given bold words, which of the following must replace each other to make the sentence contextually correct and meaningful?  
(a) Both 2-1 and 3-4 (b) Both 1-3 and 2-4  
(c) Both 2-3 and 1-4 (d) 1-3  
(e) 2-4
103. Find the synonym for the word, 'engage'.  
(a) Depend (b) Spread  
(c) Hire (d) Provide  
(e) None of these
104. In the above passage, sentence (C) may or may not have an error in one part of the sentence. Select the part having an error.  
(a) State and local administrations could continue with  
(b) a tighter level of control

- (c) on economic and social activities if required,  
(d) according to the Centre's guidelines announced on Wednesday  
(e) No error
105. Which of the following should fill the blank given in (D) to make it contextually correct and meaningful?  
(a) Stingy (b) Niggardly  
(c) Penurious (d) Normalcy  
(e) None of these
106. From the passage, find the antonym for the word, 'voluntary'.  
(a) Mandatory (b) Tight  
(c) Tailor (d) Partial  
(e) None of these
107. Four sentences each with one bold word type are given marked as (E). These are numbered (a), (b), (c) and (d). One of these words might either be wrongly spelt or inappropriate in the context of the sentence. Find out the word that is inappropriate or wrongly spelt, if any.  
(a) Only a (b) Only a & b  
(c) Only a & d (d) Only c  
(e) All correct

**DIRECTIONS (Qs. 108-115):** Read the passage carefully and answer the questions given below.

Motivational literature aimed at youth has become a staple in bookstores worldwide. With their aesthetically pleasing covers and powerful testimonials, these books claim to invigorate young readers and pave their way towards success. Despite these promising attributes, the effectiveness of such books raises quite a debate. The **sheer** number of these motivational compilations is, in itself, an overwhelming sight. They purport aversion of reality wherein success and growth are distilled into actionable tips and methodologies easily consumed by an impressionable audience. However, there is a belief that such convenience brings complexities of its own. Motivation, inherently a personal and subjective experience, is often simplified in these books. They offer a sequence of simplified steps, a 'one-size-fits-all' path towards success. Though such guidance might temporarily inspire, it rarely contributes to long-lasting motivation, rendering them ineffective in the long run. A central issue lies in the external nature of motivation these books attempt to foster. It's widely accepted that motivation should be an **intrinsic** quality, a self-ignited passion driving one forward, even in the face of adversity. This motivation, which develops from introspection, life experiences, and personal values, cannot be derived from predetermined methods or uniform strategies. Additionally, there is an inherent difficulty to **retain** the fleeting inspiration these books might induce. The motivational surge often experienced during or shortly after reading is seldom **sustainable**. Over time, as the realities of daily life resume, the inspiration diminishes, leaving readers at their starting point, sometimes even more demotivated than before. Are these observations an indictment of youth motivation books? Not entirely. These books undoubtedly play their part. They provide practical tips, inspiration from shared stories, and can even stimulate one's journey of self-growth and discovery. They expose readers to new ways of thinking and provide alternate

life perspectives. However, a cautious approach towards accepting these books as the definitive path to success is recommended. They are not magic solutions or silver bullets, as they often portray themselves to be. They should be seen as only one element of a broader journey towards self-growth and development. The youth, while inspired by these motivational reads, should understand that lasting motivation can only be derived from within themselves. It is fuelled by their impassioned desires, intrinsic values, and dreams. So, while motivational literature has its place, the youth are encouraged to primarily cultivate their own intrinsic motivation that can withstand the test of time.

108. What is the synonym for 'sheer' as used in the passage?

- (a) Obscurity (b) Infinity  
(c) Throw (d) Utter  
(e) Blur

109. According to the passage, what is the complexity associated with the convenience of motivational books aimed at youths?

- (a) They offer too many success stories.  
(b) They disrupt the reading habits of the youth.  
(c) They oversimplify the subjective nature of motivation.  
(d) They are too expensive for young people.  
(e) They are often outdated.

110. Which of the following is a synonym for the phrase 'retain' as given in the passage?

- (a) Maintain (b) Disperse  
(c) Relinquish (d) Neglect  
(e) Dismiss

111. Which of the following is mentioned in the passage as a challenge in the effectiveness of youth motivational books?

- (a) The lack of personal testimonies  
(b) The broad scope of the contents  
(c) Difficulty in sustaining the inspired motivation  
(d) The language used is too complex for the youth  
(e) The books are not accessible enough

112. What is an antonym for 'essential' as mentioned in the passage?

- (a) Invigorate (b) Sheer  
(c) Seldom (d) Intrinsic  
(e) Indictment

113. Based on the passage, which of the following statements is correct?

- (i) Motivational books potentially serve as a start towards self-growth and development.  
(ii) Motivational literature for youth counsels a one-size-fits-all method to success.  
(iii) The motivational surge from these books is often short-lived.  
(a) Only i (b) i and ii  
(c) ii and iii (d) i and iii  
(e) i, ii and iii

114. Which of the following would be an appropriate title for the passage?

- (a) The Unseen Dangers of Motivational Literature  
(b) Dissecting Motivational Literature for Youth  
(c) The Ineffectiveness of Self-help Books

- (d) The Mediocre Influence of Motivational Books  
(e) Youth Motivation: The Role and Limitations of Motivational Books

115. How does an individual ultimately feel motivated to do something?

- (a) Understanding that 'one-size-fits-all' path towards success.  
(b) Through introspection, life experiences and personal values.  
(c) Reading motivational books, but these are only a temporary source.  
(d) When an individual does not receive the much needed guidance.  
(e) When motivational books drive the self-ignited passion among individuals.

116. According to the passage, why should young readers take a cautious approach to motivational literature?

- (a) The books cannot replace practical life experience.  
(b) The books lack credibility and authenticity.  
(c) The books might discourage readers from pursuing their own goals.  
(d) The books cannot be the definitive path to success.  
(e) The books often lack quality and depth.

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**DIRECTIONS (Qs. 117-123):** Fill in the blanks with the most appropriate words to complete the passage.

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In today's fast-paced world, time management is (117) \_\_\_\_\_ for success. Whether you are a student or a professional, (118) \_\_\_\_\_ the most out of your day can be a challenge. The first step is to (119) \_\_\_\_\_ a daily schedule. Start by listing your (120) \_\_\_\_\_ tasks and prioritize them. Allocate specific time slots for each task and stick to your schedule. Avoid (121) \_\_\_\_\_ distractions and stay (122) \_\_\_\_\_ on your goals. Remember that (123) \_\_\_\_\_ planning and discipline can help you make the most of your time.

117. (a) crucial (b) irrelevant  
(c) ineffective (d) optional  
(e) necessary  
118. (a) maximizing (b) minimizing  
(c) optimizing (d) ignoring  
(e) sulking  
119. (a) ignore (b) create  
(c) eliminate (d) cherish  
(e) build  
120. (a) favourite (b) essential  
(c) random (d) unnecessary  
(e) boring  
121. (a) enticing (b) eliminating  
(c) embracing (d) ignoring  
(e) unnecessary  
122. (a) focused (b) distracted  
(c) relaxed (d) anxious  
(e) aimed  
123. (a) haphazard (b) strategic  
(c) random (d) spontaneous  
(e) good

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**DIRECTIONS (Qs. 124-127):** In the following questions, there are some errors in every sentence. Find the part of the sentence which has an error. That particular part is your answer. If there is no error, your answer is (d), i.e., No error.

124. She is a qualified doctor (a)/ but none of her daughters (b)/ pursue the medical field. (c)/ No error (d)  
 (a) She is a qualified doctor  
 (b) but none of her daughters  
 (c) pursue the medical field  
 (d) No error
125. After knowing the truth, (a)/ he moved ahead (b)/ and made the right choice. (c)  
 (a) After knowing the truth  
 (b) he moved ahead  
 (c) and made the right choice  
 (d) No error
126. Reading and writing (a)/ provides (b)/ nutrition to the brain. (c)  
 (a) Reading and writing (b) provides  
 (c) nutrition to the brain (d) No error
127. His brother (a)/ was wet in the rain (b)/ while returning from his office. (c)  
 (a) His brother  
 (b) was wet in the rain  
 (c) while returning from his office  
 (d) No error

**DIRECTIONS (Qs. 128-130):** In the below given questions, a part of the sentence is bold. There are five alternatives provided as (A), (B), (C) and (D) which may improve the sentence. Choose the correct alternative. In case no replacement is required, choose (E) as your answer.

128. The organization may be hiring for vacancies, but **cannot scold freely**.  
 (a) cannot scold at will  
 (b) cannot give umbrage  
 (c) cannot just scold anyway  
 (d) cannot scold wilfully  
 (e) No improvement
129. Many of the conservationists proclaim **to save the environment** against degradation.  
 (a) to save the environment well  
 (b) that they save the environment  
 (c) to prevent the environment  
 (d) to save the environment  
 (e) No improvement
130. **Except for you and I**, everyone went for the dinner to their house.  
 (a) With the exception of you and I  
 (b) Except for I and you  
 (c) Except for you and me  
 (d) Everyone except for me and you  
 (e) No improvement

**DIRECTIONS (Qs. 131-135):** In each of the following sentences, there are three blank spaces. There are five options and each option consists of three words which will be filled in the blanks to make the sentence grammatically correct.

131. Activists in the country have been \_\_\_\_\_ since ages about its \_\_\_\_\_ society that prohibits women from travelling, marrying or attending college without \_\_\_\_\_ from a male member of their family, also known as the guardian according to the law.  
 (a) denying, rigid, permit  
 (b) fighting, strong, restrictions  
 (c) proposing, lenient, allowance  
 (d) curious, patriarchal, permitting  
 (e) protesting, patriarchal, permission
132. The new world driven by \_\_\_\_\_ changes is seeing a \_\_\_\_\_ of startups who are questioning the status quo and \_\_\_\_\_ industries.  
 (a) automatically, upsurge, disorganized  
 (b) robotic, decline, Indian  
 (c) technological, proliferation, disrupting  
 (d) mechanical, enlargement, organized  
 (e) patriotism, storehouse, astounding
133. The \_\_\_\_\_ of time does not remain the same. The new lamp had \_\_\_\_\_ for reading. Therefore, he opened his books for a \_\_\_\_\_ understanding of concepts.  
 (a) lapse, more, better (b) span, less, clear  
 (c) cycle, much, detailed (d) cycle, enough, thorough  
 (e) span, enough, better
134. There cannot be \_\_\_\_\_ among Indian children because there are two \_\_\_\_\_ of children. They get two \_\_\_\_\_ kinds of education in the country.  
 (a) peace, kinds, varied  
 (b) equality, classes, different  
 (c) happiness, types, indirect  
 (d) peace, dimensions, major  
 (e) rights, kinds, limited
135. The government has failed to provide necessary \_\_\_\_\_ for the \_\_\_\_\_ of children. Most of them go to a \_\_\_\_\_ without blackboards.  
 (a) facilities, education, school  
 (b) amenities, upliftment, school  
 (c) schools, education, place  
 (d) requirements, well-being, school  
 (e) reports, betterment, educational institute

**DIRECTIONS (Qs. 136-138):** In the question given below, a set of sentences is given, which when properly sequenced, form a coherent paragraph. Arrange the sentences in the correct sequence, and answer the questions.

- P.** Among the biggest implications of the coming drop in population is the end of plentiful labour.  
**Q.** China's population is shrinking faster than expected.  
**R.** According to the Chinese Academy of Social Sciences, the long-anticipated population decline will start in 2027.  
**S.** Over the past 40 years, companies benefited from the seemingly endless scale of the Chinese workforce.  
**T.** Now, that era is drawing to a close, and companies need to prepare for a shrinking talent pool.
136. Which of the following would be the SECOND statement after rearrangement?  
 (a) P (b) R  
 (c) Q (d) S  
 (e) T



137. Which of the following would be the FIFTH statement after rearrangement?  
 (a) P (b) R (c) Q (d) S  
 (e) T
138. Which of the following would be the THIRD statement after rearrangement?  
 (a) P (b) R (c) Q (d) S  
 (e) T

**DIRECTIONS (Qs. 139-140):** In the given questions, a word in the sentence is printed in bold. Below the sentence, alternatives are provided for the bold part which may help improve the sentence. Choose the correct alternative out of the five given options.

139. North Korean leader Kim Jong-un met with Chinese President Xi Jinping and **reaffirmed** his commitment to the peninsula's denuclearization.  
 (a) Emphasized (b) Redundant  
 (c) Forced (d) Imposed  
 (e) Slapped
140. This special magnetic appeal or charm is **reinforce** to his power and presence in front of an audience.  
 (a) Ornate (b) Opine  
 (c) Paramount (d) Peculiar  
 (e) None of these

### General/Finance Awareness

141. DLabs at the Indian School of Business (ISB) launched "Build for Billions", a startup accelerator program, in collaboration with the Reserve Bank Innovation Hub (RBIH) and which bank?  
 (a) State Bank of India  
 (b) Punjab National Bank  
 (c) Axis Bank  
 (d) Union Bank of India  
 (e) Bank of Baroda
142. What is the architectural style of the Ayodhya Ram Mandir?  
 (a) Gothic (b) Neoclassical  
 (c) Nagara (d) Modernist  
 (e) None of the above
143. Name the DRDO Multi-Barrel Rocket Launcher (MBRL) systems  
 (a) bazooka (b) Pinaka  
 (c) Panzerfaust 3 (d) M-160 Rocket Launcher  
 (e) None of the above
144. Which states are in startup ranking 2022?  
 (a) Gujarat, Karnataka, Kerala, Tamil Nadu.  
 (b) Maharashtra, Odisha, Punjab, Rajasthan, Telangana  
 (c) Andhra Pradesh, Assam, Madhya Pradesh, Uttar Pradesh, Uttarakhand  
 (d) Bihar, Haryana  
 (e) All of the above
145. Name the Argentina's state-owned enterprise that has signed an agreement with Khanij Bidesh India Limited (KABIL) to explore and develop 5 lithium brine blocks  
 (a) CEMYIN (b) CAMYEN  
 (c) CEMYAN (d) CIMYEN  
 (e) None of the above
146. Hanle as India's first dark sky reserve, is located in which state/UT?  
 (a) Ladakh (b) Himachal Pradesh  
 (c) Punjab (d) Jammu and Kashmir  
 (e) None of the above
147. In which state/UT, Pench Tiger Reserve (PTR) is located?  
 (a) Gujrat (b) Rajasthan  
 (c) Uttar Pradesh (d) Madhya Pradesh  
 (e) None of the above
148. Under the PM-JANMAN, India has a Scheduled Tribe (ST) population with \_\_\_\_\_ communities across \_\_\_\_\_ states.  
 (a) 75 & 15 (b) 75 & 18  
 (c) 53 & 68 (d) 63 & 98  
 (e) 43 & 48
149. In August 2020, COVID-19 stress committee headed by  
 (a) Shri Diwakar Gupta (b) Shri T N Manoharan  
 (c) Shri Ashvin Parekh (d) K.V. Kamath  
 (e) None of the above
150. Regional Rural Banks (RRBs) located in which of the following Union Territory (UTs)  
 (a) Punjab, Jammu & Kashmir and Ladakh.  
 (b) Delhi, Jammu & Kashmir and Ladakh.  
 (c) Puducherry, Jammu & Kashmir and Ladakh.  
 (d) Madhya Pradesh, Jammu & Kashmir and Ladakh.  
 (e) Jammu & Kashmir and Ladakh.
151. How much % of Indian population come under 15-64 working age, as per the United Nations Population Fund (UNFPA)  
 (a) 65% (b) 68% (c) 70% (d) 80%  
 (e) 90%
152. The manipulation of facial appearance through deep generative methods called  
 (a) Line art (b) Deepfake  
 (c) Fake (d) Duplicate  
 (e) None of the above
153. What is the inspiration for G20 2023 logo?  
 (a) India's national flag (b) Russia's national flag  
 (c) France's national flag (d) China's national flag  
 (e) None of the above
154. Who is the first unicorn in 2024?  
 (a) Krutrim (b) BYJU's  
 (c) Swiggy (d) OYO Rooms  
 (e) Dream11
155. Eway Bill should be generated when the value exceeds  
 (a) ₹ 50,00 (b) ₹ 50,000  
 (c) ₹ 50,0000 (d) ₹ 70,000  
 (e) ₹ 60,000
156. The RBI has given permit to resident individuals to make remittances to IFSCs that was established in India under which scheme?  
 (a) Liberalized remittance scheme (LRS)  
 (b) Money Transfer Service Scheme (MTSS)  
 (c) Rupee Drawing agreement (RDA)  
 (d) Restructuring scheme by RBI  
 (e) One Time Settlement Scheme (OTSS)
157. Which company signed MoU with NPCI to expand UPI globally?  
 (a) Amazon (b) Flipkart  
 (c) Google Pay India (d) Bharat pay  
 (e) None of the above
158. Windfall tax levied in the form of  
 (a) Special Additional Extra Duty  
 (b) Special Additional Excise Duty

- (c) Super Additional Excise Duty  
(d) Special Advantage Excise Duty  
(e) None of the above
159. Tata Consultancy Services (TCS) is India's most valuable brand with a brand value of  
(a) \$50 billion (b) \$43 billion  
(c) \$60 billion (d) \$70 billion  
(e) \$80 billion
160. What is the meaning of ISO IEC 27001?  
(a) International Organization for Steel  
(b) International Organization for Standardization  
(c) Internal Organization for Standardization  
(d) International Outlook for Standardization  
(e) None of the above
161. An account becomes inoperative after how many years?  
(a) 3 years (b) 4 years  
(c) 2 years (d) 5 years  
(e) 1 years
162. Which company ranked first among arrangers for Indian offshore loans in 2023?  
(a) HDFC (b) HSBC Holdings plc  
(c) SBI (d) AXIS  
(e) None of the above
163. Which of the following is NOT a classical language of India?  
(a) Odia (b) Pali  
(c) Kannada (d) Telugu  
(e) None of the above
164. REC Limited issues inaugural Yen Denominated Green Bonds aggregating to JPY 61.1 Billion for how many years?  
(a) 4-year (b) 2-year  
(c) 1-year (d) 5-year  
(e) 3-year
165. Non-Banking Financial Companies (NBFCs) are the Financial Intermediaries engaged primarily in the business of  
i. Accepting Deposits  
ii. Lending loans and advances  
iii. Leasing  
iv. Hire purchasing  
(a) i and ii (b) iii and iv  
(c) i and iii (d) i, ii, iii and iv  
(e) None of the above
166. Based on the recommendations of which Committee was the creation of a separate category for NBFCs operating in the microfinance sector (NBFC-MFI) done?  
(a) Narasimhan Committee  
(b) Malegam Committee  
(c) Deepak Parekh Committee  
(d) PK Mohanty Committee  
(e) None of the above
167. Who is the regulatory authority for Merchant Banking in India?  
(a) Securities and Exchange Board of India  
(b) Reserve Bank of India  
(c) Union Ministry of Corporate Affairs  
(d) Union Ministry of Finance  
(e) None of the above
168. Which of the following statements is incorrect with respect to TReDS?  
(a) It stands for Trade Related Discounting System.  
(b) It is an initiative of the Reserve Bank of India.  
(c) Its aim is to help cash-starved micro, small and medium enterprises (MSMEs) promptly encash receivables.  
(d) It is an online bill discounting platform that enables discounting of invoices/bills of exchanges of MSME sellers against large corporate, including Government departments and PSEs through an auction mechanism at competitive market rates.  
(e) None of the above
169. The National Quantum Mission (NQM) was launched for how many years?  
(a) 4 years (b) 8 years  
(c) 5 years (d) 6 years  
(e) 9 years
170. State Bank of India (SBI) had raised Rs. \_\_\_\_\_ through its second Basel III compliant Additional Tier 1 bond issuance for the current financial year.  
(a) ` 4,000 crore (b) ` 5,000 crore  
(c) ` 6,000 crore (d) ` 7,000 crore  
(e) ` 8,000 crore
171. The transaction limit for UPI payments for Retail Direct Scheme and IPO subscriptions is upto Rs  
(a) 1 lakh (b) 2 lakh  
(c) 5 lakh (d) 4 lakh  
(e) 6 lakh
172. The Central Board of Directors of the RBI (Reserve Bank of India) is appointed/nominated for a period of \_\_\_\_\_ years.  
(a) five (b) six (c) three (d) four  
(e) None of the above
173. How much fine issued for coaching centre after the 1 breach of Guidelines for Regulation of Coaching Center 2024?  
(a) Rs 35,000 (b) Rs 45,000  
(c) Rs 25,000 (d) Rs 55,000  
(e) Rs 65,000
174. The UDGM portal to simplify the process for the public to locate their \_\_\_\_\_ in various banks through a single platform.  
(a) Fixed Deposits (b) Unclaimed Deposits  
(c) Current Deposits (d) Claim Deposits  
(e) None of the above
175. Ayhika Mukherjee is associated with which sports?  
(a) Football (b) Table Tennis  
(c) Cricket (d) Hockey  
(e) None of the above
176. Which of the following are the Domestic Systemically Important Insurers (D-SIIs)?  
(a) Life Insurance Corporation of India (LIC), General Insurance Corporation of India Limited (GIC Re)  
(b) Life Insurance Corporation of India (LIC), General Insurance Corporation of India Limited (GIC Re), and New India Assurance  
(c) Life Insurance Corporation of India (LIC)  
(d) Life Insurance Corporation of India (LIC), General Insurance Corporation of India Limited (GIC Re), and HDFC  
(e) None of the above



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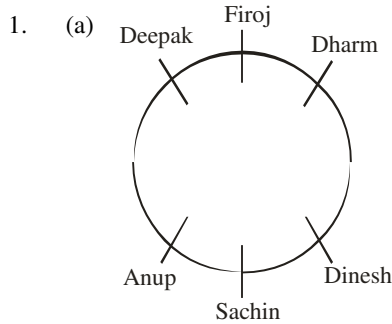
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177. Under the Member of Parliament Local Area Development (MPLAD) scheme, Rs\_\_\_\_\_will be available to each Member of Parliament (MP) at the start of the financial year.  
(a) 1 crore (b) 2 crore  
(c) 5 crore (d) 4 crore  
(e) 6 crore
178. Which Bank has applied to the Monetary Authority of Singapore for a banking licence?  
(a) SBI Bank (b) Axis Bank  
(c) ICICI Bank (d) HDFC Bank  
(e) Union Bank
179. How many banks were nationalized in India on 15th April 1980?  
(a) 4 (b) 5 (c) 6 (d) 8  
(e) 9
180. Which team Netherlands defeated in World Cup 2023?  
(a) India (b) Pakistan  
(c) Bangladesh (d) South Africa  
(e) None of the above
181. Which of the following is not a regulatory body?  
(a) CCI (b) RBI (c) SIDBI (d) SEBI  
(e) None of the above
182. What is the compensation amount per day of delay in releasing documents as per RBI's recent directions?  
(a) ` 2,000 (b) ` 5,000 (c) ` 3,000 (d) ` 4,000  
(e) ` 6,000
183. Presence of Indian banks increased in overseas through  
(a) subsidy (b) Subsidiaries route  
(c) annexation (d) appropriation  
(e) None of the above
184. Which bank has signed an MoU with the Indian Renewable Energy Development Agency (IREDA) to co-lending and loan syndication of Renewable Energy (RE) projects across the India?  
(a) ICICI (b) Punjab National Bank  
(c) SBI (d) HDFC  
(e) None of the above
185. When was the Pension Fund Regulatory and Development Authority of India (PFRDA) established?  
(a) 2000 (b) 2005 (c) 2003 (d) 2001  
(e) None of the above
186. How many times has NASA Apollo reached the moon till now?  
(a) Two missions (b) Six missions  
(c) Five missions (d) Four missions  
(e) Ten missions
187. The Constitution (Scheduled Castes) Order (Amendment) Bill, 2023 was passed to include two synonyms for a community in which state?  
(a) Madhya Pradesh (b) Sikkim  
(c) Chhattisgarh (d) West Bengal  
(e) Bihar
188. Which Union Ministry has set up a working group to decriminalise laws to further promote ease of doing business?  
(a) Ministry of Finance  
(b) Ministry of MSME  
(c) Ministry of Commerce and Industry  
(d) Ministry of Corporate Affairs  
(e) None of the above
189. India and which bloc reached an agreement to review their free trade pact for goods by 2025?  
(a) SAARC (b) BIMSTEC  
(c) ASEAN (d) G-20  
(e) None of the above
190. India signed a MoU with which country to boost cooperation in civil aviation?  
(a) New Zealand (b) France  
(c) Germany (d) Spain  
(e) France

**ANSWER KEY**

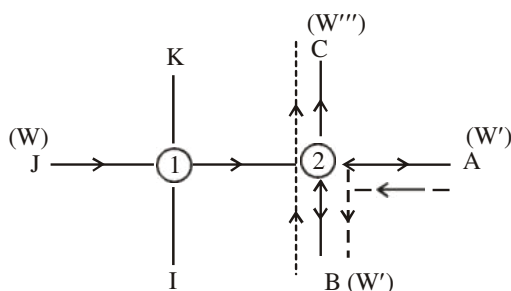
|    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | (a) | 21 | (d) | 41 | (b) | 61 | (c) | 81  | (b) | 101 | (a) | 121 | (a) | 141 | (d) | 161 | (c) | 181 | (c) |
| 2  | (b) | 22 | (a) | 42 | (b) | 62 | (b) | 82  | (c) | 102 | (d) | 122 | (a) | 142 | (c) | 162 | (b) | 182 | (b) |
| 3  | (b) | 23 | (b) | 43 | (d) | 63 | (a) | 83  | (b) | 103 | (c) | 123 | (b) | 143 | (b) | 163 | (b) | 183 | (b) |
| 4  | (c) | 24 | (d) | 44 | (b) | 64 | (c) | 84  | (a) | 104 | (e) | 124 | (c) | 144 | (e) | 164 | (d) | 184 | (b) |
| 5  | (a) | 25 | (d) | 45 | (b) | 65 | (b) | 85  | (b) | 105 | (d) | 125 | (b) | 145 | (b) | 165 | (d) | 185 | (c) |
| 6  | (b) | 26 | (a) | 46 | (c) | 66 | (c) | 86  | (c) | 106 | (a) | 126 | (b) | 146 | (a) | 166 | (b) | 186 | (b) |
| 7  | (c) | 27 | (c) | 47 | (b) | 67 | (a) | 87  | (b) | 107 | (d) | 127 | (b) | 147 | (d) | 167 | (b) | 187 | (c) |
| 8  | (c) | 28 | (c) | 48 | (e) | 68 | (a) | 88  | (a) | 108 | (d) | 128 | (a) | 148 | (b) | 168 | (a) | 188 | (c) |
| 9  | (a) | 29 | (e) | 49 | (e) | 69 | (b) | 89  | (b) | 109 | (c) | 129 | (b) | 149 | (d) | 169 | (b) | 189 | (c) |
| 10 | (e) | 30 | (a) | 50 | (d) | 70 | (b) | 90  | (d) | 110 | (a) | 130 | (c) | 150 | (c) | 170 | (b) | 190 | (a) |
| 11 | (e) | 31 | (c) | 51 | (a) | 71 | (a) | 91  | (e) | 111 | (c) | 131 | (c) | 151 | (b) | 171 | (c) |     |     |
| 12 | (d) | 32 | (e) | 52 | (b) | 72 | (a) | 92  | (d) | 112 | (d) | 132 | (c) | 152 | (b) | 172 | (d) |     |     |
| 13 | (c) | 33 | (a) | 53 | (d) | 73 | (d) | 93  | (c) | 113 | (e) | 133 | (d) | 153 | (a) | 173 | (c) |     |     |
| 14 | (d) | 34 | (b) | 54 | (a) | 74 | (a) | 94  | (c) | 114 | (e) | 134 | (b) | 154 | (a) | 174 | (b) |     |     |
| 15 | (d) | 35 | (e) | 55 | (c) | 75 | (c) | 95  | (d) | 115 | (b) | 135 | (a) | 155 | (b) | 175 | (b) |     |     |
| 16 | (b) | 36 | (b) | 56 | (b) | 76 | (b) | 96  | (c) | 116 | (d) | 136 | (b) | 156 | (a) | 176 | (b) |     |     |
| 17 | (b) | 37 | (d) | 57 | (c) | 77 | (a) | 97  | (b) | 117 | (a) | 137 | (e) | 157 | (c) | 177 | (c) |     |     |
| 18 | (b) | 38 | (b) | 58 | (c) | 78 | (c) | 98  | (a) | 118 | (c) | 138 | (a) | 158 | (b) | 178 | (d) |     |     |
| 19 | (b) | 39 | (d) | 59 | (c) | 79 | (b) | 99  | (d) | 119 | (b) | 139 | (a) | 159 | (b) | 179 | (c) |     |     |
| 20 | (c) | 40 | (a) | 60 | (d) | 80 | (c) | 100 | (c) | 120 | (a) | 140 | (c) | 160 | (b) | 180 | (c) |     |     |

# ANSWERS & EXPLANATIONS



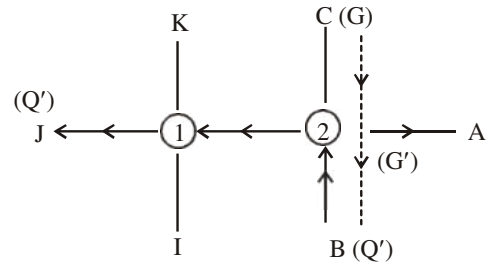
2. (b) Clearly, Dinesh is sitting opposite of Deepak  
After Combining  
 $N \geq K \leq T \leq J \leq I \leq G = M > L \leq H \leq F = Z$   
**Conclusions:**  
I.  $G > L \rightarrow$  True ( $G = M > L$ )  
II.  $F > L \rightarrow$  False ( $L \leq H \leq F \rightarrow L \leq F$ )  
III.  $F = L \rightarrow$  False ( $L \leq H \leq F \rightarrow L \leq F$ )  
So, conclusion II and conclusion III form complementary pairs.  
Hence, only I and Either II or III are True.
3. (b)  $H \geq U < K \leq L \leq T < N = J > I \leq G \leq M = A$   
**Conclusions:**  
I.  $M > I \rightarrow$  false ( $I \leq G \leq M \rightarrow I \leq M$ )  
II.  $L < H \rightarrow$  false ( $H \geq U < K \leq L$ )  
III.  $I = M \rightarrow$  false ( $I \leq G \leq M \rightarrow I \leq M$ )  
So, conclusion I and conclusion III forms complementary pair.  
Hence, Either I or III is true.
4. (c)  $K \leq N < R = T \geq F = U \geq I = H < B = X$   
**Conclusions:**  
(I)  $T > H \rightarrow$  False ( $T \geq F = U \geq I = H \rightarrow T \geq H$ )  
(II)  $R \neq U \rightarrow$  True ( $R = T \geq F = U$ )  
(III)  $H = T \rightarrow$  False ( $T \geq F = U \geq I = H \rightarrow T \geq H$ )  
So, conclusion I and III forms complementary pair.  
Hence, only II and either I or III are true.

Sol. (5- 8):



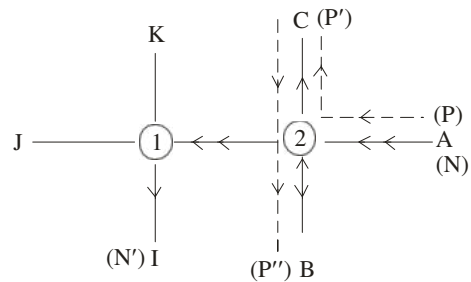
5. (a) So, the answer is North-East.

6. (b)



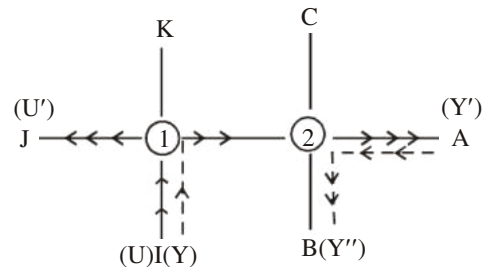
So, it is clear that the initial position of Q is in the south to the initial position of G.

7. (c)



So, we know that the final position of Bus 'N' from initial position of Bus 'P' is in South-West.

8. (c)



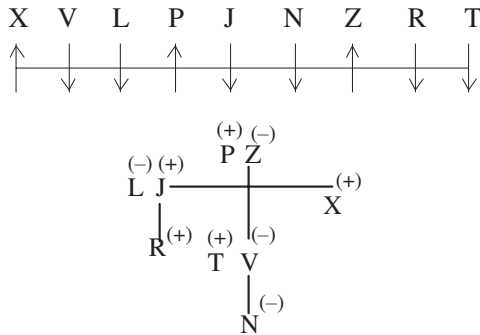
The distance between each point is unknown so we can not exactly tell the initial position of Bus U from final Position of Bus Y. It can not be determined.

9. (a)

| Digits          | 7  | 7  | 8  | 4  | 4  | 6  | 7  | 4  | 8  | 2  | 8  | 4  |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Subtract-1      | +1 | -1 | +1 | -1 | +1 | -1 | +1 | -1 | +1 | -1 | +1 | -1 |
| Add 1           |    |    |    |    |    |    |    |    |    |    |    |    |
| Resultant Digit | 8  | 6  | 9  | 3  | 5  | 5  | 8  | 3  | 9  | 1  | 9  | 3  |
| Final Number    | 6  | 8  | 3  | 9  | 5  | 5  | 3  | 8  | 1  | 9  | 3  | 9  |

The sum of all the digits of the final number is \_\_\_\_\_  
 $= 6 + 8 + 3 + 9 + 5 + 5 + 3 + 8 + 1 + 9 + 3 + 9 = 69$   
 The largest two digit number is = 99  
 Therefore, the difference between 99 and 69 is = 30

Sol. (10-14)

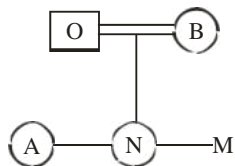


10. (e) N is the grand daughter of Z  
Hence, Z is the grandmother of N.
11. (e) V is seated third to the right of J  
Hence, V sits third to the right of J.
12. (d) The grandchildren of P are R and N. N is seated second to the right and R is seated fourth to the right of P. Hence, the grandchildren sit second and fourth to the right of P.
13. (c) The two persons sitting at the two ends of the row are X and T. They are brothers-in-law.  
Hence, X and T are brothers-in-law.
14. (d) **Statement I:** No married couple is seated side by side. This is true. There are three married couples in the family and none are seated side by side.  
**Statement II:** R and N are cousins. This is true.  
**Statement III:** Z is mother-in-law of L. This is true. L is J's wife who is the son of Z.  
Hence, none of the statements are false.

Sol. (15-18):

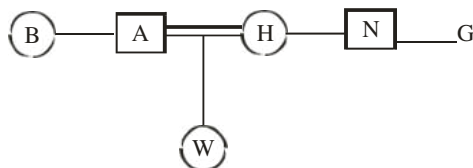
| Symbol in diagrams | Meaning  |
|--------------------|----------|
| ○ Female           | □ Male   |
| == Married         | — Single |

15. (d)



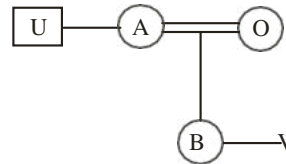
M is being the daughter of B when the symbol of '#' between M and B can be palced here.  
Hence, the option (d) is Correct.

16. (b)



Therefore, only statement (b) is true.  
Hence, A is the brother-in-law of g.

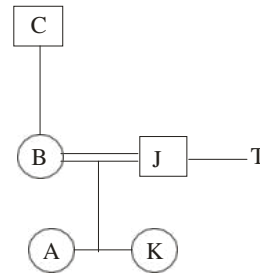
17. (b)



U is the uncle of V

Hence, the answer is U%A\$B#O+V

18. (b)



Hence, J is the father of A.

19. (b) I. "White Whale" only sells new books → The passage does not provide any information about whether the bookstore only sells new books or not. Therefore, we cannot conclude that statement I is correct.  
II. The bookstore's success is due to its book collection and cozy atmosphere → The passage mentions that the bookstore has gained popularity due to its "extensive collection of books" and "cozy reading books and tea shop". Therefore, statement II is correct.  
III. Aakash's expertise is in management rather than literature → The passage states that Aakash, the store owner, "has studied literature at a prestigious university". The passage does not provide any information about Aakash's management skills or education. Therefore, we cannot conclude that the statement III is correct.  
Hence, the correct answer is Only II.
20. (c) Statement 1: It suggests that the integration of AI-driven financial advisors may contribute to reinforcing biased financial practices, aligning the warning in the study.  
Statement II: It assumes that financial institutions are actively working to eliminate biases in AI system used for decision-making in the financial sector, which is not explicitly mentioned in the given information. However, it is a common expectation that institutions would work towards reducing biases. Therefore, the correct answer is C, as both assumptions are implicit and align with the concerns raised in the study about AI- driven financial advisors.  
The correct answer is option (c). Both I and II implicit.
21. (d) The codes for the 21 consonants and 5 vowels of the English alphabetical series. They are as follows-  
1. The consonants are coded as the numbers of the even number series except N. M and I, which are coded with special characters. Therefore, the codes for the consonants are-

| CONSONANT | CODE | CONSONANT | CODE |
|-----------|------|-----------|------|
| B         | 2    | N         | &    |
| C         | 4    | P         | 20   |
| D         | 6    | Q         | 22   |
| F         | 8    | R         | %    |
| G         | 10   | S         | 24   |
| H         | 12   | T         | 26   |
| J         | 14   | V         | 28   |
| K         | 16   | W         | 30   |
| L         | 18   | X         | 32   |
| M         | @    | Y         | 34   |
|           |      | Z         | 36   |

2. The vowels are coded as the position of letter we get by reversing the English alphabetical series. The codes for vowels are-

| VOWEL | MIRROR LETTER | CODE |
|-------|---------------|------|
| A     | Z             | 26   |
| E     | V             | 22   |
| I     | R             | 18   |
| O     | L             | 12   |
| U     | F             | 6    |

The given word is 'BUSINESS'. It is a eight letter word. So the code for it should begin with 'c'. Also the fourth letter is a vowel. So it should be replaced by '#' in the code.

Therefore, in accordance with the given set of rules, the code for the given word is C2624#&222424

Hence, the code for the word 'BUSINESS', is 'C2624#&222424'.

22. (a) In accordance with the given set of rules, the code for the word 'INTERMEDIATE' is C18&26#% '22618262622'.
- Hence, the second part of the code for the word INTERMEDIATE is 226182622.
23. (b) 'DOCTOR' is coded as 'C61242612%'.  
The sum of the individual digits in the code is \_\_\_\_\_.  
 $6 + 1 + 2 + 4 + 2 + 6 + 1 + 2 = 24$   
'ENGINEER' is coded as 'C22&10#&2222%'.  
The sum of the individual digits in the code is \_\_\_\_\_.  
 $2 + 2 + 1 + 0 + 2 + 2 + 2 + 2 = 13$   
The positive difference between these two quantities is  $24 - 13 = 11$
24. (d) The vowels are shifted by two forward places and the consonants are shifted by four backward places according to the English alphabetical series 8 \_\_\_\_.

| LETTERS                   | D  | E  | P  | O  | S  | I  | T  |
|---------------------------|----|----|----|----|----|----|----|
| CONSONANTS (C)/VOWELS (V) | C  | V  | C  | V  | C  | V  | C  |
| +2 if (V) -4 if (C)       | -4 | +2 | -4 | +2 | -4 | +2 | -4 |
| RESULTANT LETTER          | Z  | G  | L  | Q  | O  | K  | P  |
| REARRANGEMENT             | G  | K  | L  | O  | P  | Q  | Z  |

The second letter from right end is 'Q'. The fourth letter from the left end is 'O'. Difference between them is  $17 - 15 = 2$

Sol. (25-29):

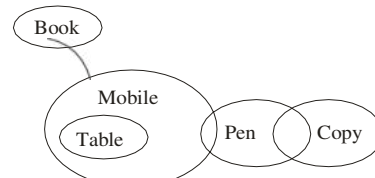
Floor

13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1

Person

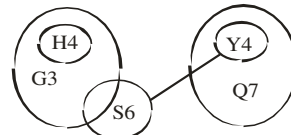
VACANT  
S  
Z  
X  
VACANT  
W  
Q  
T  
VACANT  
U  
Y  
V  
VACANT

25. (d) 'Y' lines two floor below vacant floor.  
26. (a) Number of person between Z and T is three.  
27. (c) There are four floor in between W and Y.  
28. (c) So, floors S and 1 are vacant, Hence, option(c) is the correct answer.  
29. (e) All except 'z' lines in even number floor.  
30. (a)



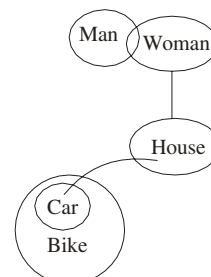
Hence, Only I follows.

31. (c)



Hence, the correct answer is all follows.

32. (e)



Hence, the correct answer is Only II follows.

33. (a) **Inference I:-**

Christie Brinkley is decision to use an app to track her kids' Online activity and restrict their screen time suggests that she is a responsible parent who cares about her children's well-being and safety. Therefore, the inference I is valid.

34. (b) According to statement I, India has made a progressive and landmark change in law that recognizes gender equality in India by making it possible to use mother's name in official documents, which is the effect of the fact that India is bound by international law to respect and protect such rights as per statement II.

Thus statement I is the effect and II is the cause. Hence, the correct answer is **Statement II is the cause and statement I is the effect.**

35. (e) Let's analyze the possible effects of the new policy mandating students to renew their biometric identity cards every six months with physical presence:

**Effect I:** The policy will have a positive effect on both academic performance and engagement, as it will motivate the students to attend classes regularly, interact with their peers and instructors, and take advantage of the available resources. '!

**Effect II:** The policy will have a negative effect on both academic performance and engagement, as it will create an unnecessary burden and hassle for the students, especially for those who live far away or have other commitments. '! Hence, the correct answer is **Both I and II.**

36. (b) To determine which of the suggested courses of action logically follow for addressing the situation of an increase in waterborne diseases in Area W of Country H, let's analyze each course of action:

**Course of Action II:** To save from waterborne diseases, a public awareness program should be arranged so that people can be aware of using clean water. '! This **course of action logically follows** for addressing the situation. Waterborne diseases are likely occurring because people in Area W are using tap water without filtration. Conducting a public awareness program would help educate the residents about the risks associated with using untreated water and promote the importance of using clean water to prevent waterborne diseases. Hence, the correct answer is **If only II follows.**

37. (d)

38. (b) The passage talks about effects of racial discrimination faced by the weaker section of people so that still the weaker section faces racial discrimination, which was believed to be a thing of the past. Thus, the racism faced should be put to an end.

- I. Because of the institutions of our democratic politics and the increase of literacy, millions of individuals from the weaker parts of society now have a voice and empowerment which is positive note and it does not weaker the statement.

- II. People of different racial and ethnic origins may have privileges in comparison to the numerous advantages one individual receives. Thus, this statement weakens the argument.

- III. The establishment of a National Committee and the widespread endorsement of the constitutional and other legal provisions that prohibit discrimination should be supported. This statement does not weaken the argument.

- IV. The world is now more linked thanks to the internet and social media. However, some people are stoking racial tension with this technological breakthrough which does not weakens the argument.

- V. Our democratic system's institutional and administrative structures have been set up by the government to counter different forms of prejudice. this will strengthen the argument. Thus, **option II is the answer.**

39. (d)

- I. The incident showcases a clear violation of the food blogger's privacy and dignity, highlighting an instance of gender-based harassment. Such behavior not only infringes on individual rights but also points to a larger societal issue that demands attention.

- II. The statement implies that incidents like these contribute to a negative perception of safety for women in public spaces, and such occurrences tarnish the reputation of the city. This indicates a broader impact on the safety perception and reputation of the city due to incidents like the one described. Therefore, assumption II is implicit. Hence, both assumptions I and II are implicit in the given context.

40. (a)

The given statement is-

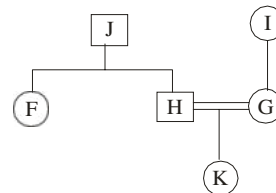
The college authorities have decided to give seven grace marks in the Mathematics paper to all the second-year students as the performance of these students in Mathematics was below their expectations. This mainly implies that a majority of the students in second year have not passed their Mathematics paper and giving them grace marks might help them clear their paper.

Considering this, we can infer that:

**Assumption I:** Majority of the students in second-year may still fail in Mathematics even after giving them grace marks. This statement is implicit as those seven grace marks may still not be enough for many students of second year to pass their examination as they might have performed very poorly. They might need more than seven marks to pass the examination.

Hence, **only assumption I is implicit.**

41. (b)



Hence, statement alone is sufficient to answer the question.



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42. (b)

| No. | Box | Vegetables |
|-----|-----|------------|
| 6   | N   | Onion      |
| 5   |     |            |
| 4   | M   | Garlic     |
| 3   | I   | Tomato     |
| 2   | K   | Corn       |
| 1   | J   | Potato     |

This statement is sufficient to answer. How many boxes are kept below one contains Garlic.

Hence, the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

**Sol. (43-47):**

**For the four letter words:-** The first word from the four letter words shifted to the end (arranged from right to left) and the letters are arranged in alphabetical order.

**For the three letter words:-** The letters in words are arranged in alphabetical order from the beginning.

Input : CALM TRUE COOL SAFE PLA Y CRY LET TOE DOG

Step I: TRUE COOL SAFE PLAY ACLM CRY LET TOE DOG

Step II: COOL SAFE PLAY ERTU ACLM CRY ELT TOE DOG

Step III: SAFE PLAY CLOO ERTU ACLM CRY ELT EOT DOG

Step IV: PLAY AEFS CLOO ERTU ACLM CRY ELT EOT DGO

Step V: ALPY AEFS CLOO ERTU ACLM CRY ELT EOT DGO

43. (d) From above we know that the third element is step V is 'CLOO'.

44. (b) As we can see that 'PLAY' is 2nd to the left of 'ERTU' in setp III.

45. (b) In step V 'CLOO' comes exactly between "AEFS" and "ERTU".

46. (c) In Step III "PLAY CLOO ERTU" are in same order.

47. (b) From the above steps it is clear that PLAY, AEFS and EOT, DGO represents the first two and last two elements in Step IV.

48. (e) From Statements I and II :

| Salary (Decreasing Order | Shyam | Ravi | Kavita | Sonu | Tanu | Sameen | Monu |
|--------------------------|-------|------|--------|------|------|--------|------|
|--------------------------|-------|------|--------|------|------|--------|------|

Thus, the salary of only three persons are less than 'Sonu' Hence. Statement I and II together are sufficient.

49. (e)

| Floor | Person |
|-------|--------|
| 8     | Z      |
| 7     | U      |
| 6     | W      |
| 5     |        |
| 4     | V      |
| 3     | X      |
| 2     | Y      |
| 1     | T      |

Hence, both statements are needed to answer the question.

50. (d)

| Given words       | Selected Letters | New Word |
|-------------------|------------------|----------|
| Claustrophobia    | l, r, b, a       | —        |
| Photosynthesis    | h, y, n, s       | —        |
| Incomprehensive   | c, o, e, s       | —        |
| Not with Standing | w, l, n, d       | Wind     |
| Parallelogram     | l, e, a, m       | —        |

**Sol. (51-55):**

| Shops | Sold Tricycles | Cost price per Tricycle | Markup Price Per Tricycle | Selling Price per Tricycle | Total Discount | Discount per Tricycle |
|-------|----------------|-------------------------|---------------------------|----------------------------|----------------|-----------------------|
| P     | 30             | 100                     | 140                       | 133                        | 210            | 7                     |
| Q     | y = 200        | 205                     | 246                       | 243                        | 600            | 3                     |
| R     | x = 25         | 100                     | 250                       | 133                        | 2925           | 117                   |
| S     | 210            | 200                     | 360                       | 334.29                     | 5400           | 25.71                 |
| Total | 465            | 605                     | 996                       | 843.29                     | 9135           | 152.71                |

51. (a) Cost price each Tricycle in shop T =  $\frac{200}{4} \times 5 = 250$

Number of tricycles is shop T =  $200 - 120 = 80$

So, condition III is not true.

Markup % of Tricycles is shop T =  $25 + 5 = 30\%$

∴ Markup price of each Tricycles in shop T

$$= 250 \times \frac{130}{100} = 325$$

$$\text{Discount of each Tricycles in shop T} = \frac{4800}{80} = 60$$

∴ Selling price of each Tricycle in shop T

- $= 325 - 60 = ₹ 265$   
 So, condition I is true.  
 Total revenue in shop T =  $80 \times 265 = ₹ 21200$   
 So, condition II is not true  
 Hence, only condition I is true
52. (b) Required difference =  $₹ 996 - ₹ 843.29 = ₹ 152.71$
53. (d) Total tricycles sold in shop Q = 200  
 Defective tricycles =  $200 \times \frac{20}{100} = 40$   
 Non - defective tricycles =  $200 - 40 = 160$   
 Discount per tricycles for non - defective tricycles = ₹ 3  
 $\therefore$  Discount per tricycle for defective tricycles =  $3 + 2 = ₹ 5$   
 Hence, total discount given by shop Q =  $160 \times 3 + 40 \times 5 = 480 + 200 = ₹ 680$
54. (a) Marked price of each tricycle in shop R = ₹ 250  
 Number of tricycles, sold by shop U =  $46 - 25 = 21$   
 Hence, condition I is satisfy.
55. (c) (I) Difference between total revenue received by the shop P and R =  $30 \times 133 - 25 \times 133 = 5 \times 133 = ₹ 665$  (True)  
 (II) Marked price of each tricycle in shop R = ₹ 250 (True)  
 (III) Selling price of each tricycle in shop P = ₹ 133 (Not true)  
 Hence, only I and II are true.
56. (b) Let J's present age is x years.  
 According to question,  
 $\frac{x-2}{x+10} = \frac{4}{7}$   
 $\Rightarrow 7x - 14 = 4x + 40$   
 $\Rightarrow 3x = 54$   
 $x = 18$  years  
 Let K's present age is y years.  
 $18 - y = 72 - 12a$   
 $\Rightarrow y = 12a - 54$  — (i)  
 And  $18 + y = a^2$   
 $\Rightarrow y = a^2 - 18$  — (ii)  
 From equation (i) and (ii) —  
 $12a - 54 = a^2 - 18$   
 $\Rightarrow a^2 - 12a + 36 = 0$   
 $\Rightarrow a = 6$   
 $\therefore$  K's present age =  $12 \times 6 - 54 = 18$  years.  
 So average age =  $\frac{(18+3) + (18-7)}{2} = \frac{21+11}{2} = 16$   
 Hence, we can write  $16 = 6 + 10 = (a + 10)$
57. (c) Juice in final mixture =  $500 \times \frac{3}{10} = 150\text{ml}$   
 Water in final mixture =  $500 \times \frac{7}{10} = 350\text{ml}$   
 $\therefore$  Total juice taken out in two process =  $250 - 150 = 100\text{ ml}$

$$\therefore \text{ Juice removed in one process} = \frac{100}{2} = 50\text{ ml}$$

$$\text{So, } 70 \times \frac{250}{(250+a)} = 50$$

$$\Rightarrow 250 + a = 350$$

$$\Rightarrow a = 100\text{ ml (Initial quantity of water)}$$

$$\therefore \text{ Replaced water in each process} = 70 - 50 = 20\text{ ml}$$

$$\text{So, quantity of water after two process}$$

$$= 100 - 20 - 20 = 60\text{ ml}$$

$$\text{Hence quantity of water added} = 350 - 60 = 290\text{ ml}$$

58. (c) **Quantity I :**

$$x \times \frac{20}{100} (x+50) \times \frac{10}{100} = 45$$

$$\Rightarrow \frac{2x}{10} \times \frac{x}{10} = 45$$

$$\Rightarrow \frac{x}{10} = 50$$

$$\Rightarrow x = ₹ 500 \text{ (Cost price of Article A)}$$

$$\therefore \text{ Profit on article A} = 500 \times \frac{20}{100} = ₹ 100$$

**Quantity II :**

$$\text{Loss} = 560 \times \frac{25}{100} = ₹ 140$$

Hence, Quantity I < Quantity II

59. (c) Sum of roots =  $\frac{(-b)}{a} = \frac{b}{a}$

$$\text{(coefficient of } x)$$

$$\text{(coefficient of } x^2)$$

$$\Rightarrow \frac{b}{a} = 4.5 = \frac{9}{2}$$

$$\text{So, coefficient of } x \text{ (M)} = 9$$

$$\therefore \text{ Equation is } -2x^2 - 9x + 10 = 0$$

$$\Rightarrow 2x^2 - 4x - 5x + 10 = 0$$

$$\Rightarrow (x-2)(2x-5) = 0$$

$$\Rightarrow x = 2, \frac{5}{2} = 2.5$$

$$\therefore a = 2.5 \text{ and } b = 2$$

$$4y^2 - Ny + 19 = 0$$

$$\text{One root of this equation} = 2.5 \times \frac{40}{100} = 1$$

$$\text{Product of roots} = c \times d = \frac{19}{4} = 4.75$$

$$\text{as } c > d$$

$$\therefore d = 1$$

$$\text{And, } c = 4.75$$

I.  $a + c = b + d$

$$\Rightarrow 2.5 + 4.75 = 2 + 1$$

$$\Rightarrow 7.25 \neq 3 \text{ (Not correct)}$$

II.  $c + d = 4.75 + 1 = 5.75$  (Correct)

III. As,  $a = 2.5, b = 2, c = 4.75, d = 1$

$$\text{So, } a > b > c > d \text{ is not correct}$$

60. (d) 1<sup>st</sup> scheme –

$$8800 = P \left( 1 + \frac{20}{100} \right)^2 - P$$

$$\Rightarrow 8800 = P \left[ \frac{36}{25} - 1 \right]$$

$$\Rightarrow P = 8800 \times \frac{25}{11} = ₹ 20000 \text{ (Principal amount)}$$

In 2<sup>nd</sup> scheme –

$$\text{Principal} = 2 \times 20000 = ₹ 40000$$

$$\text{Compound Interest} = 40000 \left[ \left( 1 + \frac{10}{100} \right)^2 - 1 \right]$$

$$= 40000 \left( \frac{121}{100} - 1 \right) = 40000 \times \frac{21}{100} = ₹ 8400$$

61. (c) Yellow balls = 10

Green balls = 8

White balls = 32 – (10 + 8) = 14

$$\text{Hence, required probability} = \frac{{}^{10}C_1 \times {}^8C_1 \times {}^{14}C_1}{{}^{32}C_3}$$

$$= \frac{10 \times 8 \times 14}{32 \times 31 \times 30} = \frac{10 \times 8 \times 14}{16 \times 31 \times 10} = \frac{7}{31}$$

Sol. (62 – 66):

| BPOs | Inbound Messages | Outbound Messages | Total |
|------|------------------|-------------------|-------|
| P    | 55               | 25                | 80    |
| Q    |                  |                   | 100   |
| R    | 95               | 25                | 120   |
| S    | 115              | 35                | 150   |
| T    | 100              | 120               | 220   |
| U    | 60               | 100               | 160   |

62. (b) Males bounded the inbound message in R

$$= \frac{95}{19} \times 10 = 50$$

Females bounded the inbound message in R

$$= 98 - 50 = 48$$

Males bounded the outbound messages in R

$$= 70 - 50 = 20$$

∴ Females bounded the outbound messages in R

$$= 25 - 20 = 5$$

Hence, required difference = 48 – 5 = 43.

63. (a) Inbound messages by S =  $150 \times \frac{23}{30} = 115$

$$\text{Outbound messages by S} = 150 \times \frac{7}{30} = 35$$

Total messages made by Q = 100

$$\therefore \frac{(115 - 100)}{100} \times 100 = (a + 3)$$

$$\Rightarrow 15 = a + 3$$

$$\Rightarrow a = 12$$

So, a + 4 = 12 + 4 = 16

Hence, International Inbound messages of R

$$= 95 \times \frac{3}{(16 + 3)} = 5 \times 3 = 15$$

64. (c) Total domestic messages by P = 80 – 41 = 39

$$\therefore \text{Inbound domestic messages by P} = 39 \times \frac{4.5}{6.5} = 27$$

Outbound messages by T = 120

Hence, required ratio = 27 : 120 = 9 : 40

65. (b) Let International messages by Q and S are 26a and 45a respectively.

And Domestic messages by Q and S are 4b and 5b respectively.

According to question,

$$26a + 4b = 100 - (i)$$

$$45a + 5b = 150 - (ii)$$

By solving equation (i) and (ii)

$$a = 2 \text{ and } b = 12$$

$$\therefore \text{International message by Q} = 26 \times 2 = 52$$

Total Inbound message by U = 60

Hence, difference = 60 – 52 = 8

66. (c) Inbound messages by U = 60

$$\text{So, } b + 3 = 60 + 3 = 63$$

$$\text{And } 33.33\% = \frac{1}{3}$$

$$\text{So, Outbound messages by Q} = 63 \times \frac{4}{3} = 84$$

Inbound message by Q = 100 – 84 = 16

$$\therefore 4 : x = 16 : 84 = 4 : 21$$

$$\text{So, } x = 21$$

$$\therefore m^2 - 21m + 108 = 0$$

$$\Rightarrow m^2 - 12m - 9m + 108 = 0$$

$$\Rightarrow (m - 12)(m - 9) = 0$$

$$\Rightarrow m = 9, 12$$

Hence, smaller root (a) = 9

67. (a) Let monthly income of A and B are 100a and 300a respectively.

$$\text{A's expenditure} = 100a \times \frac{x}{100} = ax$$

$$\text{B's expenditure} = 300a \times \frac{7}{12} = 175a$$

According to question,

$$12480 + ax = 100a$$

$$\Rightarrow (100 - x)a = 12480 - (i)$$

$$\text{And, } ax + 175a = 59020$$

$$\Rightarrow (175 + x)a = 59020 - (ii)$$

By dividing equation (ii) by (i) –

$$\frac{175 + x}{100 - x} = \frac{59020}{12480} = \frac{227}{48}$$

$$\Rightarrow 48x + 8400 = 22700 - 227x$$

- $\Rightarrow 275x = 14300$   
 $\Rightarrow x = 52$   
 By equation (i) –  
 $(100 - 52)a = 12480$   
 $\Rightarrow a = \frac{12480}{48} = 260$   
 Hence, average monthly income of A and B  
 $= \frac{100a + 300a}{2} = 200a = 200 \times 260 = ₹ 52000$
68. (a) Ratio of investment of Yuvi, Ekansh and kartik  
 $= (30000 \times 6 + 24000 \times 6) : 36000 \times 12 : 6x$   
 $= 54000 : 72000 : x$   
 According to question,  
 $132000 \times \frac{72000}{(126000 + x)} = 48000$   
 $\Rightarrow \frac{66 \times 3000}{(126000 + x)} = 1$   
 $\Rightarrow 126000 + x = 198000$   
 $\Rightarrow x = 198000 - 126000 = 72000$   
 Hence, value of  $x = ₹ 72000$
69. (b) I.  $x^2 - 4x - 8x + 32 = 0$   
 $\Rightarrow (x - 4)(x - 8) = 0$   
 $\Rightarrow x = 4, 8$   
 II.  $x^2 - 26x + 169 = 0$   
 $\Rightarrow x^2 - 13x - 13x + 169 = 0$   
 $\Rightarrow (x - 13)(x - 13) = 0$   
 $\Rightarrow x = 13, 13$   
 So, two equations can make –  
 (i)  $x^2 - (13 + 4)x + 13 \times 4 = 0$   
 $\Rightarrow x^2 - 17x + 52 = 0$   
 (ii)  $x^2 - (13 + 8)x + 13 \times 8 = 0$   
 $\Rightarrow x^2 - 21x + 104 = 0$   
 Hence, equation in option (b) is formed.
70. (b)  $? \times 8 + \frac{45}{100} \times 80 = 33 \times 4$   
 $\Rightarrow ? \times 8 = 132 - 36$   
 $\Rightarrow ? = \frac{96}{8} = 12$
71. (a)  $\frac{25 \times 4}{5} + 16 + \left(\frac{?}{8}\right)^2 = ?$   
 $\Rightarrow ?^2 \times 20 + 16 + 64$   
 $\Rightarrow ? = \sqrt{100} = 10$

Sol. (72 – 75):

| Articles | Cost - price | Selling Price | Marked Price | Discount | Profit |
|----------|--------------|---------------|--------------|----------|--------|
| J        | –            | ₹ 180         | –            | –        | –      |
| K        | ₹ 240        | ₹ 306         | ₹ 360        | ₹ 54     | ₹ 66   |
| L        | –            | –             | ₹ 420        | –        | –      |
| M        | ₹ 260        | –             | ₹ 390        | –        | –      |

72. (a) New Cost price of article M =  $260 \times \frac{125}{100} = ₹ 325$   
 Discount on article M =  $390 \times \frac{20}{100} = ₹ 78$   
 $\therefore$  Selling price of article M =  $390 - 78 = ₹ 312$   
 $\therefore$  Loss occurred =  $325 - 312 = ₹ 13$   
 Hence, statement I and II only are true.
73. (d) Selling price of article L =  $420 \times \frac{80}{100}$   
 $\Rightarrow$  Cost price of article L + 36 = 336  
 $\Rightarrow$  Cost price of article L =  $336 - 36 = ₹ 300$   
 Selling price of article J = ₹ 180  
 Hence, required difference =  $300 - 180 = ₹ 120$
74. (a) Selling price of N =  $\frac{3}{5} \times 5 = ₹ 300$   
 $\therefore$  Marked price of N =  $300 + 50 = ₹ 350$   
 Cost price of N =  $260 - 10 = ₹ 250$   
 $\therefore$  Cost price of J =  $180 \times \frac{100}{120} = ₹ 150$   
 Hence, required sum =  $250 + 350 + 150 = ₹ 750$
75. (c) Profit on M =  $66 - 25 = ₹ 41$   
 $\therefore$  Selling price of M =  $260 + 41 = ₹ 301$   
 Hence, discount % on M  
 $= \frac{(390 - 301)}{390} \times 100 = 22.82\%$
76. (b) Let cost price of two chairs are  $50x$  and  $90x$ .  
 Selling price of chair in which CP is less  
 $= 50x \times \frac{124}{100} = 62x$   
 According to question,  
 $62x + 62x + 2196 = 140x \times \frac{106}{100}$   
 $\Rightarrow 124x + 2196 - 148.4x$   
 $\Rightarrow 24.4x = 2196$   
 $\Rightarrow x = 90$   
 Hence, required difference =  $90x - 50x = 40x$   
 $40 \times 90 = ₹ 3600$
77. (a)  $\frac{1}{2} \times \text{base} \times 60 = 2100$   
 $\Rightarrow \text{Base} = \frac{2100}{30} = 70$   
 $\therefore$  Breadth of rectangle = 70cm  
 $\therefore 2(70 + l) = 360$   
 $\Rightarrow 70 + l = 180 \Rightarrow l = 110$   
 $\therefore$  Radius of circle =  $\frac{110}{22} \times 7 = 35\text{cm}$   
 Hence, perimeter of the circle =  $2\pi r$   
 $= 2 \times \frac{22}{7} \times 35 = 220\text{ cm}$

78. (c)  $18 \times 4 + \frac{25}{5} - 33 = ?$   
 $\Rightarrow ? = 72 + 5 - 33 \Rightarrow ? = 77 - 33 = 44$
79. (b)  $70 - 20 \times 2 + 36 \times 1 = ?$   
 $\Rightarrow ? = 70 - 40 + 36$   
 $\Rightarrow ? = 70 - 4 = 66$
80. (c) Let speed of person is a km/h.  
 Speed of boat = (a + 4) km/h  
 $\therefore$  Downstream speed =  $a + 4 + 3 = (a + 7)$  km/h  
 So,  $\frac{1.85}{18} = a + 7$   
 $\Rightarrow S = (a + 7) \times 10 \Rightarrow S = 10a + 70$  - (i)  
 For person,  
 $\frac{S}{a} = 24$   
 $\Rightarrow S = 24a$  - (ii)  
 From equation (i) and (ii) -  
 $24a = 10a + 70$   
 $\Rightarrow 14a = 70 \Rightarrow a = 5 \text{ km/hr}$   
 Hence, speed of boat in still water =  $5 + 4 = 9 \text{ km/hr}$
81. (b) Let speed of train is x m/s.  
 Length of train = L  
 $\Rightarrow L = x \times t$   
 $\Rightarrow L = tx$  ... (i)  
 $\therefore \frac{540}{x} = t + 12$   
 $\Rightarrow 540 = tx + 12x$  ... (ii)  
 From (i) and (ii)  
 $L + 12x = 540$  ..... (iii)  
 and,  $L - 30 = 18x$   
 $\Rightarrow L - 18x = 30$  ..... (iv)  
 By solving equ. (i) and (ii)  
 $30x = 510$   
 $\Rightarrow x = 17 \text{ m/s}$  (Train's speed)  
 Putting this value in equ. (iv)  
 $L = 18 \times 17 + 30 = 336 \text{ m}$   
 $\therefore$  Hence, value of  $t = \frac{336}{17} = 19.7 \text{ sec}$ .

**Sol. (82-83):**

Pattern of the series-

$$0.5 \times 14 = 7 \neq 6$$

$$7 \times 12 = 84$$

$$84 \times 10 = 840$$

$$840 \times 8 = 6720$$

$$6720 \times 6 = 40320$$

$$40320 \times 4 = 161280 = a$$

82. (c)  $a - 112809 = 161280 - 112809 = 48471$

83. (b) 6 is wrong number in the series.

**Sol. (84-86):**

I. Pattern of the series-

|                   |                   |                   |                   |                  |                  |     |
|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|
| 275,              | 851,              | 451,              | 707,              | 563,             | 627,             | 611 |
| ↑                 | ↑                 | ↑                 | ↑                 | ↑                | ↑                | ↑   |
| +576              | -400              | +256              | -144              | +64              | -16              |     |
| (24) <sup>2</sup> | (20) <sup>2</sup> | (16) <sup>2</sup> | (12) <sup>2</sup> | (8) <sup>2</sup> | (4) <sup>2</sup> |     |

So,  $a = 275$ ,  $b = 851$ ,  $c = 451$

II. Pattern of the series-

|      |      |      |      |      |     |
|------|------|------|------|------|-----|
| 397, | 415, | 433, | 451, | 469, | 487 |
|      |      |      |      |      |     |
| +18  | +18  | +18  | +18  | +18  |     |

So,  $x = 397$  and  $y = 487$ .

84. (a) (i)  $y = a + b$   
 $\Rightarrow 487 = 275 + 851$   
 $\Rightarrow 487 \neq 1126$  (Not true)
- (ii)  $y = 446 + \frac{1}{11} \times C$   
 $\Rightarrow 487 = 446 + \frac{1}{11} \times 451$   
 $\Rightarrow 487 = 446 + 41 \Rightarrow 487 = 487$  (True)
- (iii)  $x + b = \frac{1}{2}y \Rightarrow 397 + 851 = \frac{1}{2} \times 487$   
 $\Rightarrow 1248 \neq 243.5$  (Not true)  
 Hence, only (ii) is true.
85. (b)  $z + 487 = 576$   
 $\Rightarrow z = 576 - 487 = 89$   
 Hence, average of c and z =  $\frac{451 + 89}{2} = \frac{540}{2} = 270$ .
86. (c)  $a = 275$   
 Second largest single digit prime number = 5  
 Hence, resultant =  $\frac{275}{5} = 55$
87. (b)  $3x^2 - 26x + n = 0$   
 $\therefore$  sum of roots =  $\frac{26}{3}$   
 $\Rightarrow 1 + m = \frac{26}{3} \Rightarrow 1 + \frac{8}{3} = \frac{26}{3}$   
 $\Rightarrow 1 = \frac{26}{3} - \frac{8}{3} = \frac{18}{3} \Rightarrow 1 = 6$   
 Products of root =  $\frac{n}{3} \Rightarrow 6 \times \frac{8}{3} = \frac{n}{3} \Rightarrow n = 48$
- I) HCF of 48 and 6 = 6  
 50% more than m =  $\frac{8}{3} \times \frac{150}{100} = 4$   
 As  $6 \neq 4$  (not true)
- II)  $n = 48$  which is not perfect cube (Not true)
- III)  $n = 48$  which is multiple of 1 = 6 (True)  
 Hence, only III is true.
88. (a) **Quantity I:**  
 $50x + 9 \times \sqrt[3]{64}$   
 for  $x = 2$   
 $50 \times 2 + 9 \times 8 = 172$   
 for  $x = 3$   
 $50 \times 3 + 9 \times 4 = 196$   
 for  $x = 4$   
 $50 \times 4 + 9 \times 2.8 = 225.2$   
 All value of x is positive.
- Quantity II:**  
 $6y - 2y^4 + 50y \Rightarrow 56y - 2y^4$   
 For  $y = 8$



$$56 \times 8 - 2 \times 8^4$$

$$\Rightarrow 448 - 8192 = -7744$$

So, also for  $y = 9, 10$  value will be negative.  
Hence, Quantity I > Quantity II.

89. (b) Quantity I :

$$P \rightarrow 3 \quad 20$$

$$Q \rightarrow 4 \quad 15 \quad 60 \text{ (Total capacity)}$$

$$R \rightarrow 5 \quad 12$$

So, time taken by pipes P, Q and R together to fill

$$\text{tank} = \frac{60}{47} = 1.28 \text{ hrs.}$$

Quantity II:

$$P + Q \rightarrow 8 \quad 15$$

$$Q + R \rightarrow 10 \quad 12$$

$$R + S \rightarrow 15 \quad 8$$

$$P + S \rightarrow 30 \quad 4$$

120 (Total capacity)

$$\text{So, } 2(P + Q + R + S) = 15 + 12 + 8 + 4 = 39$$

$$\Rightarrow (P + Q + R + S)'s \text{ efficiency} = \frac{39}{2}$$

So, time taken by P, Q, R and S together to fill tank

$$= \frac{120}{\frac{39}{2}} = \frac{240}{39} = 6.15 \text{ hrs}$$

Hence, Quantity I < Quantity II.

90. (d) Quantity I:

$$\text{Area of square} = 22 \times 22 = 484 \text{ cm}^2$$

$$\text{Area of 4 isosceles triangles} = 484 - 196 = 288 \text{ cm}^2$$

$$\therefore \text{Area of 1 triangle} = \frac{288}{4} = 72 \text{ cm}^2$$

$$\therefore \frac{1}{2} \times \text{side} \times \text{side} = 72$$

$$\Rightarrow (\text{side})^2 = 144$$

$$\Rightarrow \text{side} = 12 \text{ cm}$$

$$\therefore \text{Perimeter of triangles} = 12 + 12 + 12\sqrt{2}$$

$$= 24 + 12 \times 1.4 = 40.8 \text{ cm.}$$

Quantity II:

$$\text{Percentage increase in area of rectangle}$$

$$= \frac{20 \times 15}{20 \times 15} = 35 + 3 = 38\%$$

Hence, Quantity I > Quantity II.

91. (e)

$$P + Q = 24$$

$$Q + R = 12$$

$$\text{As, } 10 \geq Q \text{ and } 14 \geq (P, Q) \geq 8 \text{ and } R \geq 2$$

$$\therefore Q = 10$$

$$R = 2$$

$$P = 14$$

$$\text{Quantity I: } PQ = 54$$

$$\Rightarrow 14 \times 10 - 54 \Rightarrow 140 - 54 = 86$$

$$\text{Quantity II: } (P + R) \times Q = (14 + 2) \times 10$$

$$= 16 \times 10 = 160.$$

Hence, Quantity I < Quantity II.

Sol. (92-96):

| Day       | Mobiles Sold |
|-----------|--------------|
| Monday    | 48           |
| Tuesday   | 92           |
| Wednesday | 60           |
| Thursday  | 80           |
| Friday    | 120          |

$$\frac{40}{100} (1.25a - a) = 12$$

$$\Rightarrow a = 12\%$$

$$\therefore 1.25a = 15\%$$

$$\text{So, } b = 100 - (12 + 23 + 15 + 20) = 30\%.$$

92. (d) Mobiles sold on Monday and Tuesday

$$= 48 + 92 = 140$$

$$\text{Mobiles sold on all the remaining days}$$

$$= 400 - 140 = 260$$

$$\text{Hence, required percentage} = \frac{140}{260} \times 100 = 53.84\%.$$

93. (c) According to question.

$$120P + 80(P - 10) = 9200$$

$$\Rightarrow 120P + 80P - 800 = 9200$$

$$\Rightarrow 200P = 10,000$$

$$\Rightarrow P = 50$$

$$\text{Hence, total amount earned on Monday}$$

$$= (50 - 20) \times 48 = 1440.$$

94. (c) Mobiles present in the shop initially on Wednesday

$$= 60 \times \frac{100}{66.67} = 60 \times \frac{3}{2} = 90$$

Mobiles present in the shop initially on Thursday

$$= 80 \times \frac{100}{33.33} = 80 \times 3 = 240$$

$$\text{Hence, required ratio of unsold mobiles on Wednesday and Thursday} = (90 - 60) : (240 - 80)$$

$$= 30 : 160 = 3 : 16.$$

95. (d) Let mobiles sold on Sunday is  $x$ .

$$\frac{48 + x}{2} = 48 - 8$$

$$\Rightarrow 48 + x = 40 \times 2 \Rightarrow x = 80 - 48 = 32$$

Hence, total number of unsold mobiles on Sunday

$$= 32 \times \frac{5}{8} = 20.$$

96. (c) Let the mobiles sold on Saturday is  $x$ .

$$\therefore (92 - 48) = 2 \times (60 - x)$$

$$\Rightarrow 60 - x = \frac{44}{2} = 22 \Rightarrow x = 60 - 22 = 38$$

Hence, number of unsold mobiles on Saturday.

$$= 38 \times \frac{15}{19} = 30$$

97. (b) (J + K + L + M)'s weight =  $4a$  ... (i)

$$(J + K + L + N)'s \text{ weight} = 4 \times (a + 14.25)$$

$$= 4a + 57$$

From equ (i) and (ii)

$$4a - M + N = 4a + 57$$

$$\Rightarrow N - M = 57 \quad \dots(iii)$$

$$\text{And, } J + K + N + M = 4(a + 6.75) = 4a + 27 \dots(iv)$$

From equ (i) and (iv)

$$4a - L + N = 4a + 27$$

$$\Rightarrow N - L = 27 \quad \dots(v)$$

$$\text{And, } L + M + N = 74 \times 3 = 222$$

$$\Rightarrow N - 27 + N - 57 + N = 222$$

$$\Rightarrow 3N = 222 + 84 = 306$$

$$\Rightarrow N = 102$$

$$\therefore L = 102 - 27 = 75$$

$$\text{Hence, required percentage} = \frac{(102 - 75)}{75} \times 100$$

$$= \frac{27}{75} \times 100 = 36\%$$

98. (a) From II:

Let present age of father is  $4x$  years.

$$\therefore \text{Present age of son} = 4x \times \frac{1}{4} = x \text{ years.}$$

From I and II:

$$4x - x = 45$$

$$\Rightarrow 3x = 45$$

$$\Rightarrow x = 15$$

$$\therefore \text{Father's age} = 4 \times 15 = 60 \text{ years}$$

From I and II:

$$4x + x = 75$$

$$\Rightarrow 5x = 75$$

$$\Rightarrow x = 15$$

$$\therefore \text{Father's age} = 4 \times 15 = 60 \text{ years.}$$

Let father's age is  $x$  and Son's age is  $y$  years.

$$x - y = 45 \quad \dots(i)$$

$$x + y = 75 \quad \dots(ii)$$

By solving (i) and (ii)

$$x = 60 \text{ and } y = 15$$

So, Father's age is  $= 60$  years.

Hence, any two of statements I, II and III will give the answer.

99. (d) Let three pieces of wire are  $a, b$  and  $c$  and  $a > b < c$ .

From I:

$$a + b = 35 \quad \dots(i)$$

So, statement I alone is not sufficient,

From II:

$$b + c = 30 \quad \dots(ii)$$

So, statement II alone is not sufficient.

From I and II:

By solving equ (i) and (ii)

$$a - c = 5$$

No other information is given.

Hence, statements I and II both are not sufficient to answer.

100. (c)  $P + Q \rightarrow 20$

From I:

$$Q's \text{ full work in } = \frac{25}{1} = 25 \text{ days}$$

$$\text{So, } P + Q \rightarrow 20 \quad \frac{5}{2} \quad 100$$

$\therefore$  P alone complete the work in

$$= \frac{100}{(5-2)} = \frac{100}{3} \text{ days.}$$

So, statement I alone is sufficient.

From II:

Let efficiency of Q is 1.

$$\therefore P's \text{ efficiency} = 1 \times \frac{150}{100} = 1.5$$

$$\therefore \text{Total work} = 20 \times (1 + 1.5) = 50$$

$$\therefore P \text{ alone complete the work in } = \frac{50}{1.5} = \frac{100}{3} \text{ days}$$

So, statement II alone is sufficient.

Hence, either statement I or statement II alone is sufficient to answer.

101. (a) In the given sentence, only 'staggered' will make it grammatically as well as contextually correct. Therefore, Option A is the correct alternative among the following as staggered perfectly fits in the blank both grammatically and contextually. The sentences

will be formed as:

She staggered on trembling legs.

She staggered at the sensation, taking in the crumbled world around her.

102. (d) After making the replacements, the thus formed sentence is "A partial **reopening** of the economy is being proposed, but a lot will depend on the extent of success in **containing** the spread of the COVID-19 pandemic in particular areas."

103. (c) Hire is the correct synonym for engage. Hire means to give somebody a job. While, engage also means to give someone a task.

104. (e) All parts are correct.

105. (d) In the given sentence, only 'normalcy' makes it grammatically as well as contextually correct. The remaining options do not fit in the context of the sentence.

106. (a) The most appropriate antonym for 'voluntary' is 'mandatory'. Voluntary means an action carried out as per one's will. Whereas, mandatory means something that is made necessary to be done.

107. (d) 'Operate' is incorrect here. It should be 'operate'. Therefore, option D is the correct answer choice for this question.

108. (d) Utter is the most appropriate synonym for the word, sheer. The meaning of sheer is to emphasize the degree or amount of something. While, utter refers to something complete or total.

109. (c) They oversimplify the subjective nature of motivation. It is evident from these lines from the passage: "Motivation, inherently a personal and subjective experience, is often simplified in these books. They offer a sequence of simplified steps, a 'one-size-fits-all' path towards success."

110. (a) Maintain. The word, 'retain' means to hold on to or keep something. The most appropriate synonym to retain is maintain which means to keep something in good condition by checking or repairing continuously.
111. (c) Difficulty in sustaining the inspired motivation. It is explained through the following lines: "...Though such guidance might temporarily inspire, it rarely contributes to long-lasting motivation, rendering them ineffective in the long run. A central issue lies in the external nature of motivation these books attempt to foster. It's widely accepted that motivation should be an intrinsic quality, a self-ignited passion driving one forward, even in the face of adversity. This motivation, which develops from introspection, life experiences, and personal values, cannot be derived from predetermined methods or uniform strategies."
112. (d) Intrinsic. The word, 'essential' refers to completely necessary. Whereas, 'intrinsic' is an antonym for essential, meaning belonging to the essential nature of a thing. Therefore, intrinsic is an antonym for essential.
113. (e) All three statements are correct as per the passage. It is evident from the following lines of the passage: "Motivation, inherently a personal and subjective experience, is often simplified in these books. They offer a sequence of simplified steps, a 'one-size-fits-all' path towards success. Though such guidance might temporarily inspire, it rarely contributes to long-lasting motivation, rendering them ineffective in the long run. A central issue lies in the external nature of motivation these books attempt to foster."
114. (e) Youth Motivation: The Role and Limitations of Motivational Books. The passage talks about motivational books, how it enhances development as well as limits it. It is clearly evident from these lines: "Motivation, inherently a personal and subjective experience, is often simplified in these books. They offer a sequence of simplified steps, a 'one-size-fits-all' path towards success. Though such guidance might temporarily inspire, it rarely contributes to long-lasting motivation, rendering them ineffective in the long run."
115. (b) Through introspection, life experiences and personal values. It is given in the passage through these lines: "It's widely accepted that motivation should be an intrinsic quality, a self-ignited passion driving one forward, even in the face of adversity. This motivation, which develops from introspection, life experiences, and personal values, cannot be derived from predetermined methods or uniform strategies."
116. (d) The books cannot be the definitive path to success. This is evident from the following lines in the passage: "...These books undoubtedly play their part. They provide practical tips, inspiration from shared stories, and can even stimulate one's journey of self-growth and discovery. They expose readers to new ways of thinking and provide alternate life perspectives. However, a cautious approach towards accepting these books as the definitive path to success is recommended. They are not magic solutions or silver bullets, as they often portray themselves to be. They should be seen as only one element of a broader journey towards self-growth and development. Theyouth, while inspired by these motivational reads, should understand that lasting motivation can only be derived from within themselves. It is fuelled by their impassioned desires, intrinsic values, and dreams."
117. (a) 118. (c) 119. (b) 120. (a) 121. (a) 122. (a)
123. (b)
124. (c) The error is in the third part of the sentence. Since the sentence finishes in past tense, the word 'pursue' will become 'pursued'.
125. (b) The error is in the second part of the sentence. The grammatically correct way of writing the sentence will be- "After knowing the truth, he went ahead and made the right choice."
126. (b) The error lies in the second part of the sentence. Since two nouns are used, the verb will be singular. The improved sentence will be- "Reading and writing provide nutrition to the brain."
127. (b) The error lies in the second part of the sentence. The grammatically correct way of writing the sentence is- "His brother got wet in the rain while returning from office."
128. (a) cannot scold at will. Option (A) will replace correctly as 'cannot scold at will' means the higher authorities in the organization cannot scold as and when they want to as they are not permitted to. Options (C) and (D) nearly mean the same as option (A) and are pointing towards a direct means of punishing their employees.
129. (b) that they save the environment. 'That' should be used after proclaim in order to make the sentence grammatically correct and meaningful. The sentence will now be read as- "Many of the conservationists proclaim that they save the environment against degradation."
130. (c) Except for you and me. When the word, 'except' is used, 'me' is used with it instead of I, so the most appropriate form of this phrase will be 'except for you and me'.
131. (c) proposing, lenient, allowance. These three words will fit appropriately to make the sentence grammatically correct.
132. (c) technological, proliferation, disrupting. These words will be paced appropriately in the blanks to attain a grammatically correct sentence.
133. (d) cycle, enough, thorough. These words will fit the blanks and complete the sentence to make it appear grammatically correct.
134. (b) equality, classes, different. The three words will complete the sentence and make it grammatically correct.
135. (a) facilities, education, school. These three words will complete the sentence to make it sound grammatically correct.

136. (b) The correct rearrangement of sentences will be Q, R, P, S, T. Therefore, sentence R will be the second statement after rearrangement.
137. (e) The correct rearrangement of sentences will be Q, R, P, S, T. Therefore, sentence T will be the fifth statement after rearrangement.
138. (a) The correct rearrangement of sentences will be Q, R, P, S, T. Therefore, sentence P will be the third statement after rearrangement.
139. (a) emphasized. The word, 'emphasized' will be an appropriate alternative to replace 'reaffirmed' that will improve the sentence. The newly formed sentence will be- "North Korean leader Kim Jong-un met with Chinese President Xi Jinping and **emphasized** his commitment to the peninsula's "denuclearization."
140. (c) paramount. The word, 'paramount' will be an appropriate alternative to replace 'reinforce' that will improve the sentence. The newly formed sentence will be- "This special magnetic appeal or charm is **paramount** to his power and presence in front of an audience."
141. (d) **DLabs at the Indian School of Business (ISB)** has announced the initiation of '**Build for Billions**', a startup accelerator program centered around financial inclusion for the informal economy. This innovative program has been launched in partnership with the **Reserve Bank Innovation Hub (RBIH) and Union Bank of India**.
142. (c) The Ram Mandir, which is being supervised by the Shri Ram Janmabhoomi Teerth Kshetra Trust, is designed in the Nagara style of architecture by Chandrakant Sompura and his son Ashish Sompura. The temple will have a length of 360 feet, a width of 235 feet, and a height of 161 feet.
143. (b) Pinaka multi-barrel rocket launcher (MBRL) was developed by Armament Research and Development Establishment (ARDE), an important arm of Defence Research and Development Organisation (DRDO).
144. (e) **States' Startup Ranking 2022**
- Best performer. Gujarat. Karnataka. Kerala. Tamil Nadu.
  - Top Performer. Maharashtra. Odisha. Punjab. Rajasthan. Telangana.
  - Leader. Andhra Pradesh. Assam. Madhya Pradesh. Uttar Pradesh. Uttarakhand.
  - Aspiring leader. Bihar. Haryana.
  - Emerging Ecosystems. Chhattisgarh. Delhi. Jammu and Kashmir.
145. (b) Ministry of Mines, Government of India has achieved a significant milestone with the signing of an agreement between Khanij Bidesh India Limited (KABIL) and the state-owned enterprise of Catamarca province of Argentina CATAMARCA MINERA Y ENERGÉTICA SOCIEDAD DEL ESTADO (CAMYEN SE) at Catamarca, Argentina
146. (a) The Dark Sky Reserve will be located at Hanle village in Eastern Ladakh as a part of Changthang Wildlife Sanctuary. It will boost Astro-tourism in India and will be one of the world's highest-located sites for optical, infra-red, and gamma-ray telescopes.
147. (d) **Pench Tiger Reserve** or Pench National Park is one of the premier tiger reserves of India and the first one to straddle across two states - Madhya Pradesh and Maharashtra. The reference to Pench is mostly to the tiger reserve in Madhya Pradesh.
148. (b) Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (PM-JANMAN) According to the 2011 census, India has a Scheduled Tribe (ST) population of 10.45 crore, with 75 communities across 18 states and the Union Territory of Andaman and Nicobar Islands identified as Particularly Vulnerable Tribal Groups (PVTGs).
149. (d) The Reserve Bank of India has set up the K.V. Kamath Committee for restructuring of loans impacted by the Covid-19 pandemic. As per the Supreme Court's order, the Kamath panel report was released on September 7, 2020, by the central bank as a special window under the Prudential Framework on Resolution of Stressed Assets. The committee was headed by K.V. Kamath and its main objective was to recommend parameters for one-time restructuring of corporate loans.
150. (c) RRBs are sponsored by Public Sector Banks (PSBs). There are currently 43 RRBs supported by 12 public sector banks with 21,856 branches across 26 states and 3 Union Territories — Puducherry, Jammu & Kashmir and Ladakh.
151. (b) India's population offers a significant advantage in terms of a large workforce, which can help drive economic growth. India's 68 % population are in the 15 to 64 years age group, providing a significant contribution to the working or able-to-work population.
152. (b) Deepfakes are synthetic media that have been digitally manipulated to replace one person's likeness convincingly with that of another. It can also refer to computer-generated images of human subjects that do not exist in real life.
153. (a) The G20 Logo draws inspiration from the vibrant colours of India's national flag – saffron, white and green, and blue. It juxtaposes planet Earth with the lotus, India's national flower that reflects growth amid challenges. The Earth reflects India's pro-planet approach to life, one in perfect harmony with nature. Below the G20 logo is "Bharat", written in the Devanagari script.
154. (a) Krutrim announced that it has raised \$50 million in a funding round led by investment firm Matrix Partners India and other backers. The funding equates to a valuation of \$1 billion, making Krutrim the first company this year to attain unicorn status, according to Indian media.
155. (b) As per the e-way bill rules, e-way bill is required to be carried along with the goods at the time of transportation, if the value is more than Rs. 50,000/-. Under this circumstance, the consumer can get the e-way bill generated from the taxpayer or supplier
156. (a) The RBI has decided to permit resident individuals



- to make remittances to IFSCs established in India under the liberalized remittance scheme (LRS). This scheme allows resident individuals to send a certain amount of money during a financial year to another country for investment and expenditure. An IFSC caters to customers outside the jurisdiction of the domestic economy.
157. (c) Google Pay India signs MoU with NPCI International to expand UPI to countries beyond India. **Google Pay** is a popular mobile payments app in India. The free app allows you to send and receive money and also pay utility bills on the go.
158. (b) The government has hiked windfall tax on domestically produced crude oil to Rs 4,600 per tonne from Rs 3,300 per tonne with effect from Friday. The tax is levied in the form of Special Additional Excise Duty (SAED).
159. (b) Tata Consultancy Services (TCS) has retained the top spot as India's most valuable brand, with a value of \$43 billion, according to Kantar's BrandZ India ranking. "TCS remains a strong brand as it continues to have a very strong corporate reputation.
160. (b) ISO/IEC 27001 is the international standard for information security. It sets out the specification for an effective ISMS (information security management system). ISO 27001's best-practice approach helps organisations manage their information security by addressing people, processes and technology.
161. (c) A savings as well as current account should be treated as inoperative / dormant if there are no transactions in the account for over a period of two years. The accounts which have not been operated upon over a period of two years should be segregated and maintained in separate ledgers.
162. (b) HSBC Holdings Plc ranked first among arrangers for Indian offshore loans last year, topping Japanese lenders from the top spot they'd held since 2020. Data compiled Bloomberg show the British bank was the bookrunner on roughly \$4 billion of US-currency transactions in 2023.
163. (b) Pali is not a classical language of India. It is an ancient language. Currently, there are 6 languages that have been accorded this status: Sanskrit, Telugu, Tamil, Odia, Malayalam, and Kannada. As per the requirements set by the Government of India in 2004, a language is accorded the status of "Classical Language of India" if it fulfils the following criteria: It should have a recorded history of existing for over a period of 1500-2000 years. Should be original and not borrowed from any other language Should have ancient text/literature which is considered heritage.
164. (d) REC Limited, a Maharatna Central Public Sector Enterprise under the Ministry of Power, has successfully issued its inaugural Japanese Yen (JPY) 61.1 billion 5-year, 5.25-year and 10-year Green bonds, issued under its US\$ 10 billion Global Medium Term Notes Programme.
165. (d)
166. (b) The creation of a separate category for NBFCs operating in the microfinance sector (NBFC-MFI) was done based on the recommendations of the Malegam Committee. The Malegam Committee was appointed by the Reserve Bank of India (RBI) in 2010 to review the microfinance sector in India and provide recommendations for its growth and development. The committee recommended the creation of a separate category of NBFCs for microfinance to regulate and supervise them effectively, and to ensure that they comply with the prescribed norms and standards. The NBFC-MFIs are required to obtain a certificate of registration from the RBI and comply with the regulations on interest rates, lending practices, borrower protection, and reporting requirements.
167. (b)
168. (a) Trade Receivables e-Discounting System (TReDS) is the institutional mechanism for facilitating the financing of trade receivables of MSMEs from corporate and other buyers, including Government Departments and Public Sector Undertakings (PSUs), through multiple financiers.
169. (b) **National Quantum Mission**
- It'll be implemented by the **Department of Science & Technology (DST)** under the Ministry of Science & Technology.
  - The mission **planned for 2023-2031** aims to seed, nurture, and scale up scientific and industrial R&D and create a vibrant & innovative ecosystem in **Quantum Technology (QT)**.
  - With the launch of this mission, **India will be the seventh country to have a dedicated quantum mission** after the US, Austria, Finland, France, Canada and China.
- Salient features of NQM:**
- It will target developing **intermediate scale quantum computers with 50-100 physical qubits in 5 years and 50-1000 physical qubits in 8 years.**
170. (b) State Bank of India (SBI) said it had raised ₹ 5,000 crore through its second Basel III compliant Additional Tier 1 bond issuance for the current financial year at a coupon rate of 8.34%
171. (c) In December 2021, the transaction limit for UPI payments for Retail Direct Scheme and for IPO subscriptions was increased to ₹ 5 lakh.
172. (d) The Central Board of Directors of the RBI (Reserve Bank of India) is appointed/nominated for a period of 4 years. The Reserve Bank of India was established on April 1, 1935, in accordance with the provisions of the Reserve Bank of India Act, 1934. The Central Office (Headquarters) of the Reserve Bank was initially established in Kolkata but was permanently moved to Mumbai in 1937. Though originally privately owned, since its nationalization in 1949, the Reserve Bank is fully owned by the Government of India.
173. (c) The first violation will cost the coaching center a penalty for ₹ 25,000, while the second offense can cost a penalty up to Rs. 1 lakh. The subsequent breaches may involve registration revocation.

174. (b) Balances in savings / current accounts which are not operated for 10 years, or term deposits not claimed within 10 years from date of maturity are classified as "Unclaimed Deposits". These amounts are transferred by banks to "Depositor Education and Awareness" (DEA) Fund maintained by the Reserve Bank of India.
175. (b) Ayhika Mukherjee (born 10 June 1997) is an Indian table tennis player from Naihati, West Bengal. She was part of the Indian team for the 2018 Asian Games and 2022 Asian Games. She, along with Sutirtha Mukherjee, won the bronze medal for India in women's doubles table tennis in the Asian Games.
176. (b) India's Insurance Regulatory and Development Authority (Irdai) has declared three state-run insurers, Life Insurance Corporation of India (LIC), General Insurance Corporation of India (GIC), and New India Assurance, as Domestic Systemically Important Insurers (D-SIIs).
177. (c) Under the scheme, each MP has the choice to suggest to the District Collector for works to the tune of Rs. 5 Crores per annum to be taken up in his/her constituency. The Rajya Sabha Members of Parliament can recommend works in one or more districts in the State from where he/she has been elected.
178. (d) India's HDFC Bank seeks expansion into Singapore, applying for a banking license with the Monetary Authority of Singapore (MAS). In a strategic move, HDFC Bank Ltd, India's largest private sector lender, is actively pursuing its first branch in Singapore.
179. (c) Six Indian banks were nationalized on 15th April 1980. Nationalization is the transfer of ownership and management of an undertaking from private hands to the states. Banks were nationalized in India through an ordinance passed in the year 1969. Indira Gandhi was the prime minister who nationalized banks in India.
180. (c) The win against Bangladesh was the second victory for the Netherlands in the 2023 World Cup after inflicting a shock defeat to South Africa earlier in the group stages.
181. (c) **RBI :-** RBI is India's central bank and regulatory body under the jurisdiction of ministry of finance.  
**EBI :-** SEBI was first established in 1988 as non-statutory body for regulating the securities market.  
**CCI :-** CCI is the sole quasi-judicial and regulatory body established under the competition Act, 2002. Therefore RBI, CCI, SEBI are regulatory body but SIDBI is not a regulatory body.
182. (b) In case of delay in releasing documents, the bank/ NBFC has to pay a fee to the borrower – ₹ 5,000 for each day of delay. 6. If there is a loss/damage to documents, the lender must assist you in getting the duplicate/certified copies by covering the extra charges.
183. (b) Indian banks increased their overseas presence through the subsidiaries route and their employee strength rose by 0.5 per cent and 6.2 per cent for foreign branches and subsidiaries, respectively, during 2022-23.
184. (b) Indian Renewable Energy Development Agency Ltd. (IREDA) and Punjab National Bank (PNB) have signed a Memorandum of Understanding (MoU) aimed at advancing renewable energy initiatives across the nation.
185. (c) Pension Fund Regulatory and Development Authority (PFRDA) is a pension regulator of India. It headquartered in New Delhi. It was established by the Government of India on 23rd August 2003. Its purpose is to promote old age income security by establishing, developing and regulating pension funds. It administers and regulates National Pension System (NPS) and also administers Atal Pension Yojana (APY).
186. (b) Between 1968 and 1972, crewed missions to the Moon were conducted by the United States as part of the Apollo program. Apollo 8 was the first crewed mission to enter orbit in December 1968, and it was followed by Apollo 10 in May 1969. Six missions landed humans on the Moon, beginning with Apollo 11 in July 1969, during which Neil Armstrong became the first person to walk on the Moon. Apollo 13 was intended to land; however, it was restricted to a flyby due to a malfunction aboard the spacecraft. All nine crewed missions returned safely to the Earth.
187. (c) In the Lok Sabha, the Constitution (Scheduled Castes) Order (Amendment) Bill, 2023 was introduced to make changes to the Constitution (Scheduled Castes) Order, 1950.  
The purpose of this amendment is to include two synonyms for the Mahar community in the State of Chhattisgarh in its Scheduled Castes list.
188. (c) The Ministry of Commerce and Industry has set up a working group to decriminalise laws to further promote ease of doing business.  
The group comprised representatives from industry associations, business chambers, legal professionals, and officials of seven ministries. It would also have representatives of the National Housing Bank, NABARD and CPCB.
189. (c) India and the ASEAN countries reached an agreement to review their free trade pact for goods and set a 2025 timeline for concluding the review to address the asymmetry in bilateral trade.  
The decision came at a meeting of economic ministers from the two sides in Indonesia. The ASEAN-India Trade in Goods Agreement (AITIGA) was signed in 2009.
190. (a) The Government of India and the Government of New Zealand have signed a Memorandum of Understanding (MoU) to boost cooperation in civil aviation.  
This will cover the scheduling of new routes, code share services, traffic rights and capacity entitlement. An Air Services Agreement was signed between New Zealand and India in 2016. The New Zealand and India have reviewed the existing arrangements relating to air service between the two countries.



## Reasoning Ability

**DIRECTIONS :** Study the following information carefully to answer the given questions.

5 # P K 8 @ IHW 9% TOMD 8 & \*73 × JB 2 S Q G 5 € FNC ©

- If the elements at even-numbered positions are removed from the arrangement, which element will be at the 8th position from the right side?  
(a) X (b) 7 (c) & (d) R (e) D
- How many numbers in the arrangement are immediately followed by a symbol?  
(a) One (b) Zero (c) Five (d) Six (e) Two
- How many elements are there which are followed by consonants are preceded by number?  
(a) Two (b) One (c) Three (d) Five (e) Four
- Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?  
(a) 8@I (b) \*7× (c) GSE (d) k8@ (e) #PK
- If a four-letter meaningful word can be formed by using the third, fourth, eighth and ninth letters from the word "ORGANISATION", then what is the last letter from the right end of the newly formed word? Mark X as your answer, if more than one word is formed. Mark Z, if no meaningful word can be formed.  
(a) T (b) L (c) X (d) Z (e) E

**DIRECTIONS (Qs. 6-8) :** Read the following information carefully and answer the questions given below.

Eight members of a family have two married couples and consist of three generations. G is the brother-in-law of H. I is the only sister of H. J is the son-in-law of I. K is the sister-in-law of L. M is the son of J and M has only one sister. J is the brother of L. The remaining person is N.

- If L is married to a girl named P, then how is L related to N?  
(a) Father (b) Uncle (c) Brother (d) Cannot be determined (e) Niece
- What is the relationship between J and M?  
(a) Brother, sister (b) Father, son (c) Mother, daughter (d) Mother, son (e) Grandparent, grand child

- Which of the following statement is Correct?  
(a) K is the daughter in law of G.  
(b) J is uncle of N (c) N is uncle of L  
(d) G is father of L (e) Both (a) and (c)

**DIRECTION (Qs.9-13):** Study the following information carefully and answer the given questions.

In a certain code of language.

'city bus on school' is written as 'ql pr oz hr'

'school college on road' is written as 'yk oz nr ql'

'road circle through bus' is written as 'hr we fg yk'

'college navigation gone through' is written as 'qh nr we sn'

- What is the code for 'road' in the given code of language?  
(a) oz (b) hr (c) ql (d) we (e) yk
- What is the possible code of 'city college earth' in the given code language?  
(a) pr ql nr (b) pr nr cr (c) nr oz ql (d) pr nr we (e) pr nr hr
- The code 'qh' stands for which of the following word?  
(a) Either 'navigation' or 'road'  
(b) Either 'gone' or 'city'  
(c) Either 'gone' or 'navigation'  
(d) Either 'school' or 'road'  
(e) None of these
- What is the code for 'school' in the given code language?  
(a) ql (b) nr (c) oz (d) Either ql or oz (e) None of these
- What is the code for 'circle' in the given code of language?  
(a) hr (b) we (c) fg (d) yk (e) none of these
- How many such pairs of digits are there in the number "8347276133", each of which has as many digits between them in the number (both forward and backward direction) as they have between them in the numerical series?  
(a) Four (b) Three (c) Two (d) Five (e) More than five

**DIRECTION (Qs. 15-17):** Answer the questions based on the information on given below:

A, B, C, D, E and F have different number of colors. A has more colors than E and C. B has more colours than F, who doesn't have fewer colors than A. B doesn't have the highest number of colors.

- Who has the highest of colors?  
(a) A (b) D (c) C (d) F (e) E

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16. If C doesn't have the least number of colors, then who has the least number of colors?  
(a) A (b) D (c) C (d) F (e) E
17. How many persons have more colors than E?  
(a) Four (b) Five (c) Two (d) Cannot be determined (e) Three

**DIRECTION (Qs. 18-22):** Read the following information carefully and answer the questions given below.

There are 7 persons – G, H, I, J, K, L and M – attended a seminar on different days among Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday, Starting the week from Monday but not necessarily in the same order. (Assume that they attended in the same month of the year.)

Three persons attended between M and I. Neither M nor I is either the first or the last person to attend the seminar. Number of persons who attended before G is the same as the number of persons who attended after J. G attended after I but immediately before K. H did not attend the seminar after L.

18. Which of the statements is true?  
(a) L attended on Monday.  
(b) Only two persons attended before G.  
(c) I attended before H.  
(d) J attended after Friday.  
(e) All the above
19. Who attended the seminar on Thursday?  
(a) I (b) J (c) K (d) M (e) L
20. On which day does H attended?  
(a) Sunday (b) Monday (c) Tuesday (d) Wednesday (e) Cannot be determined
21. In a certain way I is related to K, and G is related to J. Following the same – A is related to M?  
(a) I (b) K (c) J (d) G (e) No one
22. How many persons attended between G and L?  
(a) Three (b) None (c) Two (d) One (e) More than three

**DIRECTION (Qs. 23-27):** Study the following information carefully to answer the given questions.

Eight boxes – M, N, O, P, W, X, Y and Z are kept in a room in such a way that each box is stacked on bottom to top of one another. Box Z is kept below Box O but not immediately. 3 boxes are kept between Box N and Box Y, which is kept below Box N. Box D is kept 3 places above Box X, which is kept immediately above Box P. Box Z is kept above Box N. Box P is not kept below Box M. Box W is kept second from the top of the stack.

23. Which box is kept 5 boxes below the box kept third from the top?  
(a) Box N (b) Box O (c) Box W (d) Box Y (e) Box Z
24. Which of the following statements is / are correct?  
I. Four boxes are kept between Box N and Box O  
II. Box P is kept immediately below Box X  
III. Box Z is kept three boxes above Box M

- (a) None of the statements are correct  
(b) Only Statements II and III are correct  
(c) Only Statement II is correct  
(d) Only Statements I and II are correct  
(e) All the Statements are correct
25. How many boxes are kept between the box kept sixth from the top and the box kept 2 boxes above Box X?  
(a) 2 boxes (b) 5 boxes (c) 1 box (d) 4 boxes (e) No boxes
26. Four of the five options given below follow a certain logic and form a group. Identify the odd one out.  
(a) Box M (b) Box N (c) Box O (d) Box X (e) Box Z
27. If all the boxes are rearranged in alphabetical order from the bottom to the top, which box will be placed third from the top?  
(a) Box O (b) Box N (c) Box P (d) Box X (e) Box Z

**DIRECTION (Qs. 28-32):** Study the following information carefully to answer the given questions.

Ten people are sitting in two parallel rows of five each such that each person of one row is facing the other person of the other row. G, H, I, J and K sit in Row 2 facing North, while M, N, O, P and Q sit in the Row 1 facing South. Q sits in the middle of the row and is immediate left of the person who sits opposite J. I sits at an end of the row and is sitting opposite to N. O sits to the immediate left of Q. J sits exactly is between G and H. P sits at an end of the row. H sits to the right of J.

28. Who sits in the middle of Row 2?  
(a) I (b) G (c) J (d) H (e) K
29. How many people sit between the one who sits beside G and the one who sits at the right end of Row 2?  
(a) 1 person (b) 2 people (c) 3 people (d) 4 people (e) 5 people
30. Who sits opposite to the one who sits second to the left of the one sits beside P?  
(a) H (b) G (c) I (d) K (e) N
31. Who sits at the end of the row?  
(a) P and M (b) M and N (c) G and K (d) G and N (e) I and M
32. Who sits diagonally opposite to I?  
(a) M (b) N (c) O (d) P (e) Q

**DIRECTION (Qs. 33-35):** In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

33. **Statements :**  
Only a few P is Q.  
No Q is R.

**Conclusions:**

- I. Some P are not Q.  
 II. Some P are R.  
 (a) Only conclusion I follows  
 (b) Only conclusion II follows  
 (c) Both conclusion I and II follow  
 (d) Either conclusion I or II follows  
 (e) Neither conclusion I nor II follows

**34. Statements :**

Only a few Bat are Ball.  
 All Books are Bat.

**Conclusions:**

- I. Some Bat are not Ball.  
 II. Some Book are Ball.  
 (a) Only conclusion I follows  
 (b) Only conclusion II follows  
 (c) Both conclusion I and II follow  
 (d) Either conclusion I or II follows  
 (e) Neither conclusion I nor II follows

**35. Statements:**

Some Mobile is T. V.  
 Only a few T. V. is Laptop.

**Conclusions:**

- I. All T.V can be Laptop  
 II. Some Laptop is Mobile  
 (a) Only I follow (b) Only II follow  
 (c) Both I and II follows (d) Either I or II follows  
 (e) Neither I nor II follows

**Numerical Ability**

**36. Find the wrong term in the following series.**

150, 141, 131, 120, 110, 95

- (a) 141 (b) 131 (c) 110 (d) 120  
 (e) 95

**37. Find the wrong term in the following series.**

50, 72, 98, 128, 164, 200

- (a) 50 (b) 72 (c) 164 (d) 200  
 (e) 98

**38. Find the wrong term in the following series.**

81 118 151 180 197 206

- (a) 81 (b) 118 (c) 151 (d) 180  
 (e) 197

**39. Find the wrong term in the following series.**

10 10 20 25 240 1200

- (a) 10 (b) 20 (c) 25 (d) 240  
 (e) 1200

**40. Find the wrong term in the given series.**

5 8 17 25 37 48

- (a) 17 (b) 5 (c) 37 (d) 8  
 (e) 25

**41. The ratio of the perimeter to the length of a rectangle is 18:5. If the perimeter of the rectangle is 72 cm, then find the ratio of breadth of the rectangle to the perimeter of the rectangle.**

- (a) 1:6 (b) 2:9 (c) 3:5 (d) 4:7  
 (e) 2:5

**42. Kamal started a business with an investment of ₹ 40,000 and after 6 months Surya joined her investing ₹ 1,00,000. If the Profit at the end of a year is ₹ 27,000 then what is the profit share of Surya?**

- (a) ₹ 12,000 (b) ₹ 10,000  
 (c) ₹ 15,000 (d) ₹ 11,00  
 (e) None of these

**43. Aman can row at the speed of 5 km/hr in still water, and the speed of stream is 3 km/hr. If the time difference between the upstream and downstream journey of the man is 30 minutes, find the distance?**

- (a)  $\frac{15}{7}$  km (b)  $\frac{16}{3}$  km (c)  $\frac{4}{3}$  km (d)  $\frac{13}{3}$  km  
 (e) None of these

**44. In an office, there are 15 staff members. Their average weight is 40 kg. When one of the staff members leaves the office, the average weight becomes 39 kg. If one new staff member join the average weight becomes 42 kg. Find the difference between the weight of the staff member who left the office and who join the office.**

- (a) 25 kg (b) 35 kg (c) 30 kg (d) 18 kg  
 (e) 27 kg

**DIRECTION (Qs. 45-49): Study the following information carefully and answer the questions..**

The below table shows the investment of Deepak and Dinesh in three different stock markets.

| Scheme     | Amount invested by Dinesh (in ₹) | Amount invested by Deepak (in ₹) |
|------------|----------------------------------|----------------------------------|
| ITC        | 25,000                           | 40,000                           |
| HDFC BANK  | 20,000                           | 30,000                           |
| ICICI BANK | 15,000                           | 10,000                           |

**45. Find the ratio of the total investment of Deepak in ICICI BANK and ITC together with the total investment of Dinesh in HDFC BANK and ICICI BANK together.**

- (a) 10:7 (b) 11:8 (c) 11:9 (d) 13:19  
 (e) 11:19

**46. If the investment of Gagon in HDFC BANK is 2500 more than the investment of Dinesh in ICICI BANK and the investment of Gagan in ICICI BANK is 3500 less than the investment of Deepak in ITC, then find the average investment of Gagan in HDFC BANK and ICICI BANK.**

- (a) ₹ 29000 (b) ₹ 28000  
 (c) ₹ 26000 (d) ₹ 27000  
 (e) ₹ 24000

**47. The investment of Dinesh in ICICI BANK and HDFC BANK together is what percentage more or less than the investment of Deepak in HDFC BANK and ITC together?**

- (a) 50% (b) 100% (c) 150% (d) 200%  
 (e) 250%

**48. If the investment of Pawan in ICICI BANK is 50% of the investment of Dinesh in HDFC BANK and ITC, then find the total investment of Pawan in ICICI BANK.**

- (a) ` 18,500 (b) ` 14,500  
(c) ` 13,500 (d) ` 15,500  
(e) 22,500
49. Find the average of the total investment of Dinesh in HDFC BANK, Deepak in HDFC BANK and Dinesh in ICICI BANK together.  
(a) ` 21666 (b) ` 19566  
(c) ` 17566 (d) ` 23566  
(e) ` 13566
50. What value will come in the place of the question mark '?' in the following question?  
 $500 \times 18 \div 6 + 3 + 2 \text{ of } 5 \text{ of } 3$   
(a) 1516 (b) 1512 (c) 1514 (d) 1510  
(e) 1533
51. What value will come in the place of the question mark '?' in the following question?  
 $28 \times 7 + 5 \times 4 - 56 \times 2 + 169 \div 13 = ? \div 24$   
(a) 2970 (b) 2897 (c) 2766 (d) 2808  
(e) 2976
52. What value will come in the place of the question mark '?' in the following question?  
 $20\% \text{ of } 2000 - 25\% \text{ of } 1000 = 2\% \text{ of } 500 + (?)$   
(a) 130 (b) 140 (c) 150 (d) 149  
(e) 160
53. What value will come in the place of the question mark '?' in the following question?  
 $760 \div 19 + 8 \times 5 + 7 - 2 + ? = 156$   
(a) 56 (b) 60 (c) 34 (d) 71  
(e) 65
54. What value will come in the place of the question mark '?' in the following question?  
 $25 \times 400 - 20 \times 200 + 100 \div 2 = ? \times 30 \div 3$   
(a) 505 (b) 400 (c) 605 (d) 500  
(e) 305
55. What value will come in the place of the question mark '?' in the following question?  
 $90 \times 2 + 6 + ? + 18 \div 3 \times 9 = 300$   
(a) 96 (b) 100 (c) 120 (d) 110  
(e) 60
56. What will come in the place of the question mark '?' in the following question?  
 $1105 - 15 \times [4 \times (140 - 95)] \div 5 + 100 = ?$   
(a) 618 (b) 625 (c) 623 (d) 612  
(e) 665
57. What value will come in the place of the question mark '?' in the following question?  
 $50\% \text{ of } 180 - 30\% \text{ of } 150 = ? + (500 - 55 \times 4) \div 8$   
(a) 10 (b) 13 (c) 15 (d) -12  
(e) -13
58. What will come in the place of the question mark '?' in the following question?  
 $(842 + 598 - 111) \div 3 = 693 - 73 + ?$   
(a) -165 (b) -196 (c) -177 (d) -162  
(e) None of these
59. What will come in the place of the question mark '?' in the following question?  
 $45 \times 18 + 135 \times -49 + 89 \times 43 = ? + \sqrt{69}$   
(a) 10159 (b) 11519 (c) 12259 (d) 11219  
(e) 11239
60. What will come in the place of the question mark '?' in the following question?  
 $\sqrt{324} \times 4 - 40 + 7^2 = 5^3 + 65 - ?$   
(a) -125 (b) 109 (c) -117 (d) -115  
(e) 119
61. What will come in place of question mark '?' in the following question?  
 $(952 + 348) \div 260 + 14^2 = ?$   
(a) 284 (b) 272 (c) 292 (d) 282  
(e) 201
62. What should come in the place of '?' in the following question?  
 $\sqrt{289} \times 5 + 25 \times 20\% \text{ of } 750 - 486 \div 3 = ?$   
(a) 2088 (b) 3415 (c) 3375 (d) 2812  
(e) 3673
63. What should come in the place of the question mark '?' in the following question?  
 $17 \frac{4}{3} \div 3 \frac{2}{3} + 6 \frac{2}{3} \times \frac{3}{2} - 10.5\% \text{ of } 110 = ?$   
(a) 3.15 (b) 3.45 (c) 3.65 (d) 4.25  
(e) 4.75
64. What value will come in the place of '?' in the following question?  
 $24\% \text{ of } 840 + 64\% \text{ of } 940 = 32\% \text{ of } ?$   
(a) 3210 (b) 3010 (c) 2310 (d) 2510  
(e) 2810
65. Ratio of milk and water in a mixture of 54 litres is 5 : 4. 18 litres of the mixture is taken out from the mixture and then 5 litres of water is added to it. Find the final difference between milk and water.  
(a) 2 (b) 4 (c) 3 (d) 1  
(e) None of these
66. A sum is lent at simple interest of 8% p.a. If at the end of three years, the amount received is ` 3,720, then find the sum lent.  
(a) ` 4000 (b) ` 3000  
(c) ` 5000 (d) ` 5600  
(e) ` 4400
67. A dealer purchased a washing machine. He allows a discount of 20% on its marked price and gains ` 3000. If he allows a discount of 30% on its marked price and gains ` 2000. Find the marked price of the machine.  
(a) ` 7,000 (b) ` 9,000  
(c) ` 12,000 (d) ` 10,000  
(e) ` 15,000

68. A and B can complete a work in 18 days. If A can complete the work in 24 days, then in how many days B alone can complete the work?  
(a) 24 (b) 40 (c) 48 (d) 72  
(e) None of these
69. The ratio of present age of A and B is 3 : 1 and the ratio of present age of A and C is 2 : 5. The difference between the present age of A and C is 4 years. 10 years hence, find the sum of there ages.  
(a) 70 (b) 64 (c) 60 (d) 56  
(e) 68
70. A train moving at a speed of 45 km/hr crosses a standing man in 20 seconds. Find the time taken by it to cross a platform of 200 m.  
(a) 10 s (b) 36 s (c) 12 s (d) 16 s  
(e) 20 s

### English Language

**DIRECTIONS (Qs. 71-78):** Read the following passage and answer the questions given below.

Mount Vesuvius, a volcano located between the ancient Italian cities of Pompeii and Herculaneum, has received much attention because of its frequent and destructive eruptions. The most famous of these eruptions occurred in A.D. 79.

The volcano had been inactive for centuries. There was little warning of the coming eruption, although one account unearthed by archaeologists says that a hard rain and a strong wind had disturbed the celestial calm during the preceding night. Early the next morning, the volcano poured a huge river of molten rock down upon Herculaneum, completely burying the city and filling the harbor with coagulated lava.

Meanwhile, on the other side of the mountain, cinders, stone and ash rained down on Pompeii. Sparks from the burning ash ignited the combustible rooftops quickly. Large portions of the city were destroyed in the conflagration. Fire, however, was not the only cause of destruction. Poisonous sulfuric gases saturated the air. These heavy gases were not buoyant in the atmosphere and therefore sank toward the earth and suffocated people.

Over the years, excavations of Pompeii and Herculaneum have revealed a great deal about the behavior of the volcano. By analyzing data, much as a zoologist dissects an animal specimen, scientists have concluded that the eruption changed large portions of the area's geography. For instance, it turned the Sarno River from its course and raised the level of the beach along the Bay of Naples. Meteorologists studying these events have also concluded that Vesuvius caused a huge tidal wave that affected the world's climate.

In addition to making these investigations, archaeologists have been able to study the skeletons of victims by using distilled water to wash away the volcanic ash. By strengthening the brittle bones with acrylic paint, scientists have been able to examine the skeletons and draw conclusions about the diet and habits of the residents. Finally, the excavations at both Pompeii and Herculaneum have yielded many examples of classical art,

such as jewelry made of bronze, which is an alloy of copper and tin. The eruption of Mount Vesuvius and its tragic consequences have provided everyone with a wealth of data about the effects that volcanoes can have on the surrounding area. Today, volcanologists can locate and predict eruptions, saving lives and preventing the destruction of other cities and cultures.

71. Poisonous \_\_\_\_\_ gases were spread in the atmosphere.  
(a) Hydrogen (b) Nitrogen  
(c) Sulfuric (d) Acidic  
(e) Non-toxic
72. Find the synonym of the word, 'solidify' from the above passage.  
(a) Molten (b) Saturate  
(c) Coagulate (d) Ignite  
(e) Excavate
73. \_\_\_\_\_ with acrylic paints, scientists examine the skeletons, thus concluding the type of diet consumed by the residents of a particular area.  
(a) By strengthening the brittle bones  
(b) When brittle bones are strengthened  
(c) By the combination of brittle bones  
(d) When one strengthens brittle bones  
(e) The strength of brittle bones
74. What is used by archaeologists to clean the skeletons covered with volcanic ash when they have to be studied?  
(a) Fresh water (b) Sodium bicarbonate  
(c) Distilled water (d) Nitrogen gas  
(e) Sulfur
75. Bronze is an alloy of \_\_\_\_\_ and \_\_\_\_\_.  
(a) Tin and potash (b) Aluminium and copper  
(c) Copper and tin (d) Potash and copper  
(e) Aluminium and sodium
76. Who studies the effect of tidal waves on the world's climate?  
(a) Geologists (b) Archaeologists  
(c) Meteorologists (d) Volcanologists  
(e) Scientists
77. \_\_\_\_\_ can locate and predict volcanic eruptions that can prevent cities from destruction.  
(a) Historians (b) Volcanologists  
(c) Scientists (d) Volcano engineers  
(e) Meteorologists
78. Find the antonym for the word, 'weak' from the passage.  
(a) Disruptive (b) Yielded  
(c) Examined (d) Strengthen  
(e) Destruction

**DIRECTIONS (Qs. 79-85):** In the following questions, two words are to be interchanged to be placed in the other sentence to make it grammatically correct. Choose the appropriate word to swap to improve the sentence.

79. Parents **improve** (A) their children by **overindulgence** (B) and granting their wishes. Let us try and **spoil** (C) the situation by **discussing** (D) positive measures.  
(a) A-C (b) B-D  
(c) A-D (d) C-B  
(e) B-A



2023-38

SBI Clerk (Junior Associates) Prelim Solved Paper-2023

80. The **contents** (A) of the letter **surprised** (B) them. But he was **alarmed** (C) upon **seeing** (D) his son.  
(a) A-D (b) B-D  
(c) B-C (d) D-C  
(e) C-A
81. Trust is the basic **quality** (A) for all **relationships** (B). His **tenet** (C) of being punctual in office is quite **commendable** (D).  
(a) A-C (b) B-C  
(c) D-C (d) B-D  
(e) D-A
82. Growing **urbanization** (A) and literacy **damaged** (B) the plight of women in India. The car got **changed** (C) due to the accident on the **street** (D).  
(a) D-A (b) B-C  
(c) A-C (d) B-A  
(e) B-D
83. Not all **young** (A) children are **serious** (B). They were quite **naughty** (C) at the Board **meeting** (D).  
(a) A-D (b) B-D  
(c) B-C (d) C-A  
(e) D-C
84. My **friends** (A) told me that there was no **action** (B) out. They took no **way** (C) against the **caught** (D) culprit.  
(a) B-C (b) D-A  
(c) B-D (d) C-A  
(e) A-B
85. The Bhagvad Gita is a **poem** (A) of 700 **paragraphs** (B). The **verses** (C) of that story were well **connected** (D).  
(a) A-B (b) B-C  
(c) A-C (d) C-D  
(e) C-B

**DIRECTIONS (Qs. 86-91):** In the following questions, there is a blank in each sentence which has to be filled with an appropriate word. Five options have been given. Choose the correct one to fill the blank and complete the sentence.

86. The snake \_\_\_\_\_ the man on his toes.  
(a) Had bitten (b) Bit  
(c) Bite (d) Was bitten  
(e) Was bit
87. During the recent hailstorm, one-third of our city \_\_\_\_\_ devastated.  
(a) Were (b) Are  
(c) Was (d) Is  
(e) Will be
88. Proper grammar, punctuation and spellings \_\_\_\_\_ essential in a sentence.  
(a) Were (b) Have  
(c) Is (d) Are  
(e) Can be
89. The roads \_\_\_\_\_ the state of Punjab are largely raised and smooth.  
(a) Of (b) Throughout  
(c) In (d) From  
(e) Are

90. They took blankets \_\_\_\_\_ keep themselves warm.  
(a) To (b) For  
(c) In (d) Were  
(e) Have
91. The tourist who visited Kashmir was \_\_\_\_\_ by its beauty.  
(a) Mesmerized (b) Enchanted  
(c) Awe-struck (d) Shocked  
(e) Elated

**DIRECTIONS (Qs. 92-97):** The sentences given below have an error in one of its five parts. Find out which part of the sentence has an error. The alphabet of that part is your answer.

92. (A) The scissors / (B) is / (C) kept / (D) on top of / (E) the shelf.  
(a) A (b) B  
(c) C (d) D  
(e) E
93. (A) She enrolled / (B) herself in a / (C) three-years degree / (D) course in / (E) Fashion Designing.  
(a) A (b) B  
(c) C (d) D  
(e) E
94. (A) Three requirements / (B) necessary for / (C) plant growth is / (D) soil, temperature / (E) and moisture content.  
(a) A (b) B  
(c) C (d) D  
(e) E
95. (A) He purchased / (B) some new / (C) and innovative / (D) equipments / (E) for his company.  
(a) A (b) B  
(c) C (d) D  
(e) E
96. (A) The man / (B) laid down / (C) besides me / (D) on the bench / (E) in the park.  
(a) A (b) B  
(c) C (d) D  
(e) E
97. (A) My brother / (B) was / (C) first / (D) to get / (E) a degree.  
(a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Qs. 98-100):** In the following questions, options A and G are the first and the last sentences of a paragraph. Rearrange the five sentences in a logical sequence and answer the questions that follow.

- A Branded disposable diapers are available at many supermarkets and drug stores.  
i. If one supermarket sets a higher price for a diaper, customers may buy that brand elsewhere.  
ii. By contrast, the demand for private-label products may be less price-sensitive since it is available only at a corresponding supermarket chain.

- iii. So the demand for branded diapers at any particular store may be quite price sensitive.
- iv. For instance, only SavOn Drugs stores sell SavOn Drugs diapers.
- v. These diapers are known to be water absorbent to a high extent.
- G. Then stores should set a higher incremental margin percentage for private label diapers.  
The correct rearrangement is as follows:  
Branded disposable diapers are available at many supermarkets and drug stores.
- (v) These diapers are known to be water absorbent to a high extent.
- (iii) So the demand for branded diapers at any particular store may be quite price sensitive.
- (i) If one supermarket sets a higher price for a diaper, customers may buy that brand elsewhere.
- (ii) By contrast, the demand for private-label products may be less price-sensitive since it is available only at a corresponding supermarket chain.
- (iv) For instance, only SavOn Drugs stores sell SavOn Drugs diapers.  
Then stores should set a higher incremental margin percentage for private label diapers.
98. What will be the **third** sentence after rearrangement?  
(a) iii (b) i  
(c) ii (d) iv  
(e) v
99. What will be the **second** sentence after rearrangement?  
(a) iii (b) v  
(c) i (d) ii  
(e) iv
100. What will be the **fifth** sentence after rearrangement?  
(a) i (b) iii  
(c) ii (d) iv  
(e) v

## ANSWER KEY

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1  | (b) | 11 | (c) | 21 | (b) | 31 | (d) | 41 | (b) | 51 | (d) | 61 | (e) | 71 | (c) | 81 | (a) | 91  | (a) |
| 2  | (c) | 12 | (d) | 22 | (a) | 32 | (d) | 42 | (c) | 52 | (b) | 62 | (e) | 72 | (c) | 82 | (b) | 92  | (b) |
| 3  | (d) | 13 | (c) | 23 | (d) | 33 | (a) | 43 | (c) | 53 | (d) | 63 | (b) | 73 | (a) | 83 | (c) | 93  | (c) |
| 4  | (b) | 14 | (e) | 24 | (c) | 34 | (a) | 44 | (c) | 54 | (c) | 64 | (d) | 74 | (c) | 84 | (a) | 94  | (c) |
| 5  | (d) | 15 | (b) | 25 | (a) | 35 | (e) | 45 | (a) | 55 | (e) | 65 | (d) | 75 | (c) | 85 | (b) | 95  | (d) |
| 6  | (b) | 16 | (e) | 26 | (b) | 36 | (c) | 46 | (d) | 56 | (e) | 66 | (b) | 76 | (c) | 86 | (b) | 96  | (c) |
| 7  | (b) | 17 | (d) | 27 | (d) | 37 | (c) | 47 | (b) | 57 | (a) | 67 | (d) | 77 | (b) | 87 | (c) | 97  | (c) |
| 8  | (c) | 18 | (b) | 28 | (d) | 38 | (d) | 48 | (d) | 58 | (c) | 68 | (d) | 78 | (d) | 88 | (d) | 98  | (a) |
| 9  | (e) | 19 | (c) | 29 | (b) | 39 | (c) | 49 | (a) | 59 | (e) | 69 | (b) | 79 | (a) | 89 | (b) | 99  | (b) |
| 10 | (b) | 20 | (b) | 30 | (d) | 40 | (e) | 50 | (e) | 60 | (b) | 70 | (b) | 80 | (c) | 90 | (a) | 100 | (c) |

## ANSWERS & EXPLANATIONS

1. (b) When the elements at even-numbered positions are removed.  
5 P 8 I W % O D & 7 × B S G € N ©  
The element at the 8th position from the right side is '7'?
2. (c) There are five numbers in the arrangement that are immediately followed by a symbol.  
5 #, 8 @, 9%, 8&, 8 €
3. (d) There are five elements which are followed by consonants and preceded by number.  
5 # P, 9 % T, 73 ×, 25Q, 5 € F
4. (b) '\*7×' does not belong to that group.
5. (d) No, meaningful word can be formed  
So 'Z' is the answer.

6. (b) (+) (-)  
G I ——— H  
|  
| (-)(+) (+) (-)  
K J ——— L O  
|  
| (+) (-)  
M ——— N

Hence, L is married to a girl named O, then L is the uncle of N.

7. (b) Hence, the relationship between J and M is father and son.
8. (c) Hence, N is niece of L is the correct statement.

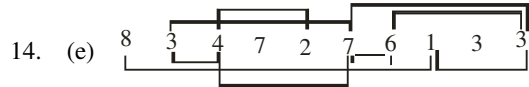
**Sol. (9 - 13):**

On decoding the words

| Words      | Code  |
|------------|-------|
| city       | pr    |
| bus        | hr    |
| on         | ql/oz |
| school     | oz/ql |
| college    | nr    |
| road       | yk    |
| circle     | fg    |
| through    | we    |
| navigation | sn/qh |
| gone       | qh/sn |

9. (e) The code for 'road' in the given code of language is 'yk'.
10. (b) The possible code of 'city college earth' in the given code language is 'pr nr cr'.

11. (c) The code 'qh' stands either for 'gone' or 'navigation'.
12. (d) The code for 'school' in the given code language is either 'ql' or 'oz'.
13. (c) Thus, the code for 'circle' in the given code of language is 'fg'.



Pairs in a backward direction: (3, 6), (3, 7), (1, 8), (6, 7), (2, 4)

Pairs in a forward direction: (1, 3), (4, 7), (3, 7), (3, 4)

14. (e)
15. (b)  $D > B > F > A > E / C > E / C$   
Hence ; D has the highest number of colours.
16. (e)  $D > B > F > A > E / C > E / C$   
Hence, E has the least number of colors.
17. (d)  $D > B > F > A > E / C > E / C$   
Hence, either 4 or 5 persons have more number of colors.

**Sol. (18 - 22) :**

| Days      | Persons |
|-----------|---------|
| Monday    | H       |
| Tuesday   | I       |
| Wednesday | G       |
| Thursday  | K       |
| Friday    | J       |
| Saturday  | M       |
| Sunday    | L       |

18. (b) Hence only two persons before 'G' is true.
19. (c) Hence, K attended the seminar on Thursday.
20. (b) Hence, H attended on Monday.
21. (b) I attended one day before K. Similarly, G attended one day before J.  
Here, K attended one day before M
22. (a) Hence, three persons attended between G and L

**Sol. (23 - 27)**

| S . No | Boxes |
|--------|-------|
| 8      | O     |
| 7      | W     |
| 6      | Z     |
| 5      | N     |
| 4      | X     |
| 3      | P     |
| 2      | M     |
| 1      | Y     |

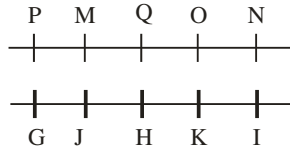
23. (d) Box 'Z' is kept third from the top.  
Hence, Box Y is kept 5 boxes below Box Z
24. (c)  
I. Four boxes are kept between Box N and Box O - (wrong)  
II. Box P is kept immediately below Box X. (true)  
III. Box Z is kept three boxes above Box M. (wrong)  
Only Statement II is correct.
25. (a) Only box N and box X is between box Z and box P.  
Hence, 2 boxes are kept between box Z and box P.
26. (b) The logic followed here is that all the given boxes are kept at even positions, except box N.  
Hence, box N is the odd one out.

27. (d)

| S . No | Boxes |
|--------|-------|
| 8      | Z     |
| 7      | Y     |
| 6      | X     |
| 5      | W     |
| 4      | P     |
| 3      | O     |
| 2      | N     |
| 1      | M     |

Hence, Box X is kept third from the top after the rearrangement.

Sol. (28 - 32) :



28. (d) 'H' sits in the middle of Row 2.
29. (b) 'J' sits beside 'G'  
'T' sits at the right end of Row 2.  
Hence, 2 people sit between J and I
30. (d) 'M' sits beside 'P'. 'O' sits second to the left of 'M'.  
Hence, 'K' sits opposite to 'O'.
31. (d) 'G' and 'N' sits at the end of the row.
32. (d) 'P' sits diagonally opposite to 'T'.

33. (a)
- 
- Hence, only conclusion I follows.

34. (a)
- 
- Hence, only conclusion I follows.

35. (e)
- 
- Hence, Neither I nor II follows.

36. (c)
- 

Hence, the wrong term in the series is 110.

37. (c)  $25 + 25 = 50$   
 $36 + 36 = 72$   
 $49 + 49 = 98$   
 $64 + 64 = 128$   
 $81 + 81 = 162$   
 $100 + 100 = 200$   
The wrong term is 164.

38. (d)
- 

39. (c)
- 

40. (e)  $(2)^2 + 1 = 5$   
 $(3)^2 - 1 = 8$   
 $(4)^2 + 1 = 17$   
 $(5)^2 - 1 = 24$   
 $(6)^2 + 1 = 37$   
 $(7)^2 - 1 = 48$

41. (b) The perimeter of the rectangle is = 72 cm

$$\text{The length of the rectangle is} = \frac{72}{18} \times 5 = 20 \text{ cm}$$

$$\text{The breadth of the rectangle is} = \frac{72 - 20 \times 2}{2}$$

$$= \frac{32}{2} = 16 \text{ cm}$$

The ratio of breadth to the perimeter of the rectangle =  $16 : 72 = 2 : 9$

42. (c) The ratio of the amount invested by kamal and Surya  
 $(40,000 \times 12) : (1,00,000 \times 6)$   
 $4,80,000 : 6,00,000$   
 $4 : 5$

The amount of profit share of Surya

$$= \frac{27000}{9} \times 5 = 15,000$$

43. (c) According to question

$$\frac{D}{5-3} - \frac{D}{5+3} = \frac{30}{60}$$

$$\frac{D}{2} - \frac{D}{8} = \frac{1}{2}$$

$$\frac{4D - D}{8} = \frac{1}{2}$$

$$D = \frac{4}{3} \text{ km}$$

44. (c) The total weight of all staff members =  $15 \times 40$

$$= 600 \text{ kg}$$

When one staff member leaves, the total weight of the remaining 14 staff members is  $14 \times 39 = 546 \text{ kg}$

Weight of leaving member =  $600 - 546 = 54 \text{ kg}$

When one staff member joins, the total weight of the 15 staff members is  $15 \times 42 = 630 \text{ kg}$

weight of new joining staff member =  $630 - 546 = 84 \text{ kg}$

Difference between the weight of the staff member who left the office and who join the office =  $84 - 54 = 30 \text{ kg}$

45. (a) The total investment of Deepak in ICICI BANK and ITC together =  $40,000 + 10,000 = 50,000$

The total investment of Dinesh in HDFC BANK and ICICI Bank together =  $20,000 + 15,000 = 35,000$

Required Ratio =  $50,000 : 35,000 = 10 : 7$

46. (d) The investment of Gagan in HDFC BANK =  $(15,000 + 2,500) = 17,500$

The investment of Gagan in ICICI BANK =  $(40,000 - 35,000) = 5,000$

$$\text{Required average} = \frac{(17,500 + 5,000)}{2} = \frac{22,500}{2}$$

$$= 11,250$$

47. (b) The investment of Dinesh in ICICI BANK and HDFC BANK together =  $20,000 + 15,000 = 35,000$

The investment of Deepak in HDFC BANK and ITC together =  $40,000 + 30,000 = 70,000$

$$\text{Required percentage} = \frac{70,000 - 35,000}{35,000} \times 100 = 100\%$$

48. (d) The investment of Pawan in ICICI BANK

$$= \frac{50}{100} \times (25,000 + 20,000) = \frac{1}{2} \times 45,000 = 22,500$$

49. (a) Required Average =  $\frac{(20,000 + 30,000 + 15,000)}{3}$

$$= \frac{65,000}{3} \Rightarrow 21,666$$

50. (e)  $500 \times 18 \div 6 + 3 + 2 \text{ of } 5 \text{ of } 3$   
 $= 1500 + 3 + 30 = 1533$

51. (d)  $28 \times 7 + 5 \times 4 - 56 \times 2 + 169 \div 13 = ? \div 24$   
 $196 + 20 - 112 + 13 = x \div 24$

$$x = 117 \times 24$$

$$x = 2808$$

52. (b)  $20\% \text{ of } 2000 - 25\% \text{ of } 1000 = 2\% \text{ of } 500 + (?)$

$$400 - 250 = 10 + ?$$

$$? = 150 - 10$$

$$? = 140$$

53. (d)  $760 \div 19 + 8 \times 5 + 7 - 2 + ? = 156$

$$40 + 40 + 5 + ? = 156$$

$$? = 156 - 85$$

$$? = 71$$

54. (c)  $25 \times 400 - 20 \times 200 + 100 \div 2 = ? \times 30 \div 3$

$$10000 - 4000 + 50 = ? \times 10$$

$$6050$$

$$? = \frac{6050}{10}$$

$$? = 605$$

55. (e)  $90 \times 2 + 6 + ? + 18 \div 3 \times 9 = 300$

$$180 + 6 + ? + 54 = 300$$

$$? = 300 - 240$$

$$? = 60$$

56. (e)  $1105 - 15 \times [4 \times (140 - 95)] \div 5 + 100 = ?$

$$1105 - 15 \times 180 \div 5 + 100 = ?$$

$$1105 - 15 \times 36 + 100 = ?$$

$$1105 - 540 + 100 = ?$$

$$? = 665$$

57. (a)  $50\% \text{ of } 180 - 30\% \text{ of } 150 = ? + (500 - 55 \times 4) \div 8$

$$90 - 45 = ? + (500 - 220) \div 8$$

$$? = 45 - 35$$

$$? = 10$$

58. (c)  $(842 + 598 - 111) \div 3 = 693 - 73 + ?$

$$443 = 620 + ?$$

$$? = -177$$

59. (e)  $45 \times 18 + 135 \times 49 + 89 \times 43 = ? + \sqrt{169}$

$$810 + 6615 + 3827 = ? + 13$$

$$? = 11252 - 13$$

$$? = 11239$$

60. (b)  $\sqrt{324} \times 4 - 40 + 7^2 = 5^3 + 65 - ?$

$$72 - 40 + 49 = 125 + 65 - ?$$

$$? = 190 - 81$$

$$? = 109$$

61. (e)  $(952 + 348) \div 260 + 14^2 = ?$

$$1300 \div 260 + 196 = ?$$

$$? = 201$$

62. (e)  $\sqrt{289} \times 5 + 25 \times 20\% \text{ of } 750 - 486 \div 3 = ?$

$$85 + 25 \times 150 - 162 = ?$$

$$? = 3750 + 85 - 162$$

$$? = 3637$$



63. (b)  $17\frac{4}{3} \div 3\frac{2}{3} + 6\frac{2}{3} \times \frac{3}{2} - 10.5\%$  of 110 = ?  
 $= \frac{55}{3} \times \frac{3}{11} + \frac{20}{3} \times \frac{3}{2} - 11.55 = ?$   
 $? = 5 + 10 - 11.55$   
 $? = 3.45$
64. (d)  $24\%$  of 840 +  $64\%$  of 940 =  $32\%$  of ?  
 $201.6 + 601.6 = 0.32 \times ?$   
 $? = \frac{303.2}{0.32}$   
 $? = 2510$
65. (d) Quantity of milk in a mixture =  $\frac{54}{9} \times 5 = 30$  litres  
Quantity of water in a mixture =  $\frac{54}{9} \times 4 = 24$  litres  
After 18 litres of the mixture is taken out:  
Quantity of milk =  $30 - \frac{18}{9} \times 5 = 20$  litres  
Quantity of water =  $24 - \frac{18}{9} \times 4 = 16$  litres  
After 5 litres of the water is added  
Quantity of water =  $16 + 5 = 21$  litres  
The final difference between milk and water  
 $= 21 - 20 = 1$  litre
66. (b) The sum lent =  $\frac{3720 \times 100}{100 + 8 \times 3} = \frac{3720}{124} \times 100 = 3000$
67. (d) **According to question**  
Let the marked price = `x  
 $x \times \frac{80}{100} - 3000 = x \times \frac{70}{100} - 2000$   
 $\frac{10x}{100} = 1000$   
 $x = `10,000$   
The marked price of the machine is = `10,000
68. (d) A and B can complete a work in = 18 days 4  
A can complete a work in = 24 days 3 72  
B alone can complete the work in =  $\frac{72}{4-3} = 72$  days.
69. (b) The ratio of present age of A, B and C = 6 : 2 : 5  
The difference between the present age of A and C is 4 years.  
The age of A =  $6 \times 4 = 24$  years  
The age of C =  $5 \times 4 = 20$  years  
The sum of their ages =  $24 + 20 + 10 + 10 = 64$  years
70. (b) The speed of train =  $45 \times \frac{5}{18} = \frac{25}{2}$  m/sec  
The length of train =  $\frac{25}{2} \times 20 = 250$  m  
The time taken by train to cross a platform of 200 m  
 $\Rightarrow \frac{(250 + 200)2}{25} \Rightarrow \frac{450}{25} \times 2 \Rightarrow 36$  sec
71. (c) Sulfuric gases. This has been mentioned in third paragraph, "Poisonous sulfuric gases saturated the air."
72. (c) Coagulate. The word is in the last line of the second paragraph, "completely burying the city and filling the harbor with coagulated lava."
73. (a) By strengthening the brittle bones. It is the second sentence of the last paragraph of the passage.
74. (c) Distilled water. It is mentioned in the first sentence of the last paragraph, "In addition to making these investigations, archaeologists have been able to study the skeletons of victims by using distilled water to wash away the volcanic ash."
75. (c) Copper and tin. It is mentioned in the lines of last paragraph, "...the excavations at both Pompeii and Herculaneum have yielded many examples of classical art, such as jewelry made of bronze, which is an alloy of copper and tin."
76. (c) Meteorologists. It is mentioned in the fourth paragraph, last sentence, "Meteorologists studying these events have also concluded that Vesuvius caused a huge tidal wave that affected the world's climate."
77. (b) Volcanologists. It is mentioned in the last line of the passage, "Volcanologists can locate and predict eruptions, saving lives and preventing the destruction of other cities and cultures."
78. (d) Strengthen. The antonym for the word, 'weak' from the passage is 'strengthen'. It is given in second sentence of the second paragraph, "By strengthening the brittle bones with acrylic paint, scientists have been able to examine the skeletons and draw conclusions about the diet and habits of the residents."
79. (a) This is an example of word swapping in which words in options A and C will be interchanged. The newly formed sentence will be- "Parents spoil their children by overindulgence and granting their wishes. Let us try and improve the situation by discussing positive measures."
80. (c) These are examples of word swap wherein a word in one sentence fits the second sentence in a more appropriate way. In this question, option (B) i.e., 'surprised' will be replaced by option (C), i.e., 'alarmed' and vice-versa. The newly formed sentences will be- "The contents of the letter alarmed them. He was surprised upon seeing his son."

81. (a) In this question, two words will be swapped to form grammatically correct sentences. Here, option (A) will be replaced by option (C). The new sentences thus formed will be- "Trust is the basic tenet for all relationships. His quality of being punctual in office is quite commendable."
82. (b) In this question, the options, (B) and (C), i.e., 'damaged' and 'changed' will be swapped to form correct sentences. The newly formed sentences will be- "Growing urbanization and literacy changed the plight of women in India. The car got damaged due to the accident on the street."
83. (c) In this question, the words, 'serious' (option B) and 'naughty' (option C) will be swapped with each other as they will be appropriate in the other sentence. The new sentences formed will be- "Not all young children are naughty. They were quite serious at the Board meeting."
84. (a) This is an example of word swapping wherein option (B) will be interchanged with option (C). The two words that will be interchanged to form appropriately correct sentences will be 'action' and 'way'. The new sentences will be formed as- "My friends told me that there was no way out. They took no action against the caught culprit."
85. (b) This is an example of word swap in which options (B) and (C) will be interchanged. In this question, 'paragraphs' and 'verses' will be swapped with each other to make meaningfully correct sentences. The new sentences will be- "The Bhagvad Gita is a poem of 700 verses. The paragraphs of that story were well connected."
86. (b) Bit. Since the sentence is in present continuous tense, 'bit' (form of bite) will be used to complete the sentence.
87. (c) Was. Since the sentence is in past tense, therefore 'was' will fit in the blank and complete the sentence.
88. (d) Are. Since 'are' is the plural form of 'is', the grammatically correct sentence will be formed as: 'Proper grammar, punctuation and spellings are essential in a sentence.'
89. (b) Throughout. Though 'in' may be used here, but 'throughout' will fit the context more appropriately.
- The grammatically correct sentence will be: 'The roads throughout the state of Punjab are largely raised and smooth.'
90. (a) To. The correct preposition to be used is 'to'.
91. (a) Mesmerized. The word means, to hold somebody's attention completely.
92. (b) This is an example of spotting errors in a sentence. Since some nouns are always used in plural form, so they always follow a plural verb. Therefore, 'is' will be replaced by 'are' since scissors is always used in a plural form. So, option (b) has an error.
93. (c) This is an example of error spotting in sentences. When nouns indicate measure or length, they remain unchanged in form so long as they are followed by another noun or pronoun. In this sentence, since the noun 'degree' follows the measure or time period, i.e., 'three years', hence it will be written as 'three-year degree course'. So, option (c) is the incorrect part.
94. (c) plant growth is. This is the error spotted in the sentence where when there are more than one items, 'are' will be used. Therefore, option (c) of the given sentence has an error.
95. (d) equipments. Since it is an uncountable noun, its plural will remain 'equipment'. Therefore, the error in option (d) is the correct answer.
96. (c) besides me. In option (c), beside should be used instead of 'besides' since besides means in addition to and beside means next to or at the side of. The grammatically correct sentence would be read as – "The man laid down beside me on the bench at the park."
97. (c) first. 'The' should be added before 'first' because the sentence is expressing a quality and at times, common nouns are used as abstract nouns to express qualities. Therefore, option (C) is the correct answer.
98. (a) iii. It follows from a logical and coherent sequencing of the sentences to form a paragraph.
99. (b) v. Through a logical sequencing of the sentences, option (b) will be the correct answer.
100. (c) ii. From the above sequence of sentences, the fifth sentence will be option (c).

# SBI Clerk (Junior Associates) Mains Solved Paper-2022

(Based on Memory)

Time : 160 minutes

Max. Marks : 200

## Reasoning Ability & Computer Aptitude

**DIRECTIONS (Qs. 1-5):** Study the following information carefully and answer the questions given below:

There are three horizontally parallel rows i.e. row 1, row 2 and row 3. Row 1 is north of row 2, which is in north of row 3. Four persons sit on row 1 facing south, four persons sit in row 3 facing north and eight persons sit in row 2 such that first three persons (from the left end of the row, considering all are facing north) face north while rest of the five persons face south. Persons, who sit in row 1 and row 3 face the persons, who sit on row 2. The distance between each of the adjacent persons in all the rows is same. The persons at the rightmost seat of row 2 is opposite to the rightmost seat of row 3 (considering all are facing the north direction). And, the leftmost seat of row 2 is opposite to leftmost seat of row 1 (considering all are facing the north direction). X faces the person, who sits 3rd to the right of U. Q sits 2nd to the left of U and adjacent to W. W faces the person, who sits 2nd to the right of K. Neither X nor W sits at any of the extreme ends. K faces the person, who sits 2nd to the right of V. Only one person sits between V and Z who faces R. L sits immediate right of M, who doesn't face K. O and T sit adjacent to each other. S faces Y, who doesn't sit 2nd to the right of N. O doesn't sit immediate right of U. N doesn't sit in row 3. P doesn't face Q.

- Who among the following faces the person, who sits immediate left of M?  
(a) V (b) N (c) U (d) W  
(e) None of these
- Who among the following doesn't sit in row 2?  
I. Q II. V III. P IV. N  
(a) I and II (b) II and III  
(c) I and IV (d) III & IV  
(e) II, III and IV
- How many persons sit between Y and the person, who sits immediate right of Q?  
(a) One (b) Three (c) Four (d) Two  
(e) More than four
- Who among the following pairs of persons doesn't form a group?  
(a) S, X (b) P, M (c) Y, V (d) Z, L  
(e) T, Q
- Who sits opposite to S.  
(a) Z (b) V (c) Y (d) O  
(e) None of these

**DIRECTIONS (Qs. 6-10):** Answer the questions based on the information given below.

Eight friends P, Q, R, S, T, U, V and W sit around a regular hexagonal table, such that six of them sit at different corners,

and remaining friends sit at the middle of two adjacent sides of the table. All the friends face away from the center of the table. S sits third to the right of P, who sits at the middle of one of the sides of the table. R sits second to the right of S. V sits immediate right of T. At least one immediate neighbour of T sits on the side of the table. W sits immediate right of U. Friend, who sits second to the right of Q, does not sit at any corner. Both the neighbours of W sit at the middle of sides of the table.

- Who sits immediate right of Q.  
(a) S (b) R (c) P (d) W  
(e) None of these
- Four from the following are similar in a certain way and forms a group. Find out the one who does not belong to that group.  
(a) R (b) Q (c) U (d) W  
(e) S
- How many friends sit between Q and T, when counted from the right of Q?  
(a) One (b) Two  
(c) Three (d) Four  
(e) None of these
- Which of the following pair sit at the middle of one of the sides of the table?  
(a) T and P (b) P and R  
(c) U and P (d) P and S  
(e) None of these
- Who sits opposite to V?  
(a) R (b) Q (c) S (d) No one  
(e) None of these

**DIRECTIONS (Qs. 11- 15):** Answer the questions based on the information given below.

Six employees joined the Disha organization in 2019. All are joined on different dates of either the same or the different month. Each of them already has some working experience. One of them joins on 18th July. Less than two employees joined before T, who has an experience in an even number. The number of employees joined before T is the same as after the one whose experience is 13 years. Q, who does not have an experience in prime number, joined before the one whose experience is 16 years but after the one whose experience is 5 and 9 years. The one whose experience is 5 years joins before the one whose experience is 9 years, who joins on 24th May. S has an experience twice that of T's experience. The number of employees joining between the one whose experience is 5 years and Q is the same as between the one whose experience is 9 years and S, who joins in the organization on 27th September. A joins after R but before U. The one who joins on 26th July joined before S but after Q. The one whose experience is 10 years joined after the

one who joined on 12th January, which is not the joining date of T. Q does not join on 15th January.

Based on their working experience a foreign company BUD gives the project with certain conditions:

1. The project is given to those employees who have a minimum experience of 3 years after joining the Disha Organization (Calculate their experience on the following date: 31st August 2022).
2. The project is given to the employees who joins the organization at first according to the month.
3. If two employees join in the same month then give priority to the one who joins the organization first according to date.
11. Which among the following is the correct order of the employees who get the project?  
(a) RTPQU (b) QUPRS  
(c) URTQP (d) UTRQS  
(e) None of these
12. If the project is given according to only the date of joining of the employees, then how many employees remain unchanged in their positions?  
(a) 1 (b) 3 (c) 2 (d) None  
(e) 4
13. Who among the following employee has a maximum work experience before joining this organization?  
(a) P (b) Q (c) R (d) T  
(e) None of these
14. How many employees joined after U?  
(a) 1 (b) 2 (c) 3 (d) 4  
(e) 5
15. If the company appoints a CEO, who has a minimum experience of 10 years, then who will be the CEO?  
(a) Q (b) S  
(c) T (d) Either (a) or (b)  
(e) Either (b) or (c)

**DIRECTIONS (Qs. 16- 20) :** Study the following information carefully and answer the questions given below.

Seven students A, B, C, D, E, F and G like different colours Pink, Gray, Red, Blue, White, Bronze and Black (not necessarily in same order) also they are from different cities. One of the students from Dehradun. Neither B nor F likes Red and Bronze colour. E likes white colour and is from Kolkata city. B is from either Noida or Gangtok. D doesn't like Pink and red colour. The one who is from Gangtok city doesn't like pink colour. A like Grey colour. The one who likes black colour is not from Churu city. D is from Churu city. G is from Patna city. The student who is from Gaya city likes bronze colour. F is not from Noida city. A is not from Noida and Gangtok city.

16. Who among the following likes Pink Colour?  
(a) D (b) C (c) F (d) B  
(e) G
17. Who among the following students is from Dehradun city?  
(a) B (b) C (c) A (d) D  
(e) E
18. Which of the following combination is true about F?  
(a) Black Gangtok (b) Blue Dehradun  
(c) Red-Kolkata (d) Pink-Churu  
(e) Grey Noida

19. Which of the following combination is true?  
(a) A-Gaya (b) C-Noida  
(c) B-Churu (d) F-Dehradun  
(e) D-Churu
20. Who among the following students is from Gaya?  
(a) F (b) C (c) B (d) G  
(e) None of these
21. How many pairs of letters are there in the word "HEADPHONE" which have as many letters between them (both forward and backward direction) in the word as in alphabetical series?  
(a) None (b) One (c) Two (d) Three  
(e) Four

**DIRECTIONS (Qs. 22-24):** In each of the questions below are given some statements followed by some Conclusions. You have to take the given statements to be true even, if they seem to be at variance from Commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**22. Statements:**

Only a few Yellow is Orange.  
No orange is Green.  
All Green are Blue.

**Conclusion:**

I: Some Blue are not Orange  
II: Some Yellow are Green.

**23. Statements:**

Only a few Car is Truck.  
All Truck is Scooters.  
Some Scooters are Bike.

**Conclusion:**

I: Some Bike is Car  
II: No Bike is Car.

**24. Statements:**

Only Spy is Bag.  
Some Bud are Spy.  
No Tag is spy.

**Conclusion:**

I: All Tag are Bud.  
II: Some Bud is bag is a possibility.

**DIRECTIONS: (Qs. 25-26):** In the following questions, the symbols \* @ #, & and \$ are used with the following meaning as illustrated below-

'P#Q' means 'P is neither greater than nor equal to Q'  
'P\*Q' means 'P is neither equal to nor smaller than Q'  
'P@Q' means 'P is neither smaller than nor greater than Q'  
'P&Q' means 'P is not smaller than Q'  
'P\$Q' means 'P is not greater than Q'

Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II and III given below them is/are definitely true and give your answer accordingly

25. **Statement:** F & D, D \* X, X \$ Z, B \* X  
**Conclusions:**  
 I. F \* B II. X # F III. B \* F  
 (a) None is true (b) Only II is true  
 (c) Only I and II are true (d) Only II and III are true  
 (e) All are true
26. **Statement:** D \* H \$ X @ F & M  
**Conclusions:**  
 I. M # X II. F # D III. H @ M  
 (a) None follows (b) Only I is true  
 (c) Only III is true (d) Either I or II is true  
 (e) All are true

**DIRECTIONS (Qs. 27- 29):** Study the following information carefully to answer the given questions.

A @ B means A is mother-in-law of B.

A % B means A is child of B.

A \* B means A is parent of B.

A # B means A is sibling of B.

A ! B means A is daughter in law of B.

A & B means A is married to B.

27. P#Q!R\*S&T, then how Q's husband is related to T?  
 (a) Sister (b) Brother  
 (c) Brother in law (d) Sister in law  
 (e) None of these
28. A % B \* C & D ! E, then how C is related to E?  
 (a) Daughter in law (b) Son in law  
 (c) Daughter (d) Son  
 (e) None of these
29. J @ K & L ! M \* N, then how L is related to N?  
 (a) Brother in law (b) Sister in law  
 (c) Sister (d) Brother  
 (e) None of these

**DIRECTIONS (Qs. 30-32):** Read the following information carefully and answer the given questions.

A # B-B is in the south direction of A at distance of 8m.

A \* B-B is in the north direction of A at distance of 6m.

A & B-B is in the east direction of A at distance of 12m.

A @ B-B is in the west direction of A at distance of 10m.

A \* @ B-B is in the northwest direction of A.

A # & B-B is in the southwest direction of A.

P # @ R, R \* Q, Q & S \* T, P @ Q

30. P is in which direction with respect to S and what is distance between point P and point S?  
 (a) West and 2m (b) East and 9m  
 (c) North and 11m (d) South and 13m  
 (e) None of these
31. What is the distance between T and Q?  
 (a)  $\sqrt{195}$ m (b)  $\sqrt{85}$ m  
 (c)  $\sqrt{180}$ m (d)  $\sqrt{176}$ m  
 (e) None of these
32. T is in which direction with respect to P and what is distance between point P and point T?  
 (a) South-west,  $\sqrt{40}$ m (b) North-west  $\sqrt{40}$ m  
 (c) South-east  $\sqrt{40}$ m (d) North-east,  $\sqrt{40}$ m  
 (e) None of these

33. The question given below consists of two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and give answer.

How many persons are sitting in the row (assuming all are facing north)?

**Statement I:** S sits 5th from the right end of the row. R sits 11th from the left end of the row.

**Statement II:** T sits 6th from the left end. R sits 3rd to the left of the one who is 7th from the right end.

- (a) Data in statement I alone is sufficient to answer the question.  
 (b) Data in either statement I or statement II alone is sufficient to answer the question  
 (c) Data in statement II alone is sufficient to answer the question.  
 (d) Data in both statement I and statement II together is sufficient to answer the question.  
 (e) Data in statement I and II together is not sufficient to answer the question.
34. The question given below consists of three statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and give answer.
- Seven persons P, Q, R, S, T, U and V live on different floors of a seven storey building, where the bottommost floor is I and the floor above it is 2 and so on. Who live on the 2nd floor?
- Statement I:** Three persons live between S and R, who lives just below U. Two persons live between U and Q.  
**Statement II:** P lives above U. T doesn't live below S. R lives above Q.  
**Statement III:** T doesn't live just below R. At least 2 persons live between Q and P.
- (a) Data in all statement I, statement II and statement III together are sufficient to answer the question.  
 (b) Data in either statement I alone or both statement I and statement II together is sufficient to answer the question.  
 (c) Data in either statement II or statement III alone is sufficient to answer the question.  
 (d) Data in either statement II or statement I alone is sufficient to answer the question.  
 (e) Data in both statement I and II together is sufficient to answer the question.

**DIRECTIONS (Qs. 35-39) :** Answer the questions based on the information given below.

In a certain language,

'India and Nepal are friends' is coded as '#1E,%6T, @ 1B, @12M, #1F' 'People with country should grow' is coded as '\$8I, !4E, !5F, %3Z, \$7X' 'Hard work becomes core for success' '%2T, #6S, & 8L, %19T, \$3F'

35. How is the word 'Monkey' coded in the given language?  
 (a) @13M (b) !13Z  
 (c) \$12M (d) %11Z  
 (e) %11M



36. How is the word 'Cabbage' coded in the given language?  
(a) %3D (b) &5F (c) \*5D (d) %3F  
(e) &4G
37. How is the word 'Packer' coded in the given language?  
(a) @18Q (b) %15R (c) !16S (d) %17P  
(e) !18S
38. How is the word 'Radarmen' coded in the given language?  
(a) &14O (b) &18S (c) !14M (d) !18Q  
(e) @14S
39. How is the sentence 'This can direct' coded in the given language?  
(a) #12T &4V !19X (b) #11A &5T %18Y  
(c) #13Z @3U \$20Z (d) #3D \$20U !4E  
(e) #3O !4U \$19T

**DIRECTION (Q. 40) :** In this question, two rows are given and to find out the resultant of a particular row you need to follow the following steps:

**Step 1:** If an even number is followed by an odd (prime) number then the resultant will be the addition of both the numbers.

**Step 2:** If an odd number is followed by a perfect square then the results will be the subtraction of the square number from the odd number.

**Step 3:** If an odd number is followed by another odd number then the resultant will be the addition of both the numbers.

**Step 4:** If an even number is followed by an odd (non-prime) number then the resultant will be the subtraction of the odd number from the even number.

**Step 5:** If an odd number is followed by an even number then the resultant comes by multiplying the numbers.

40. Find the sum of two rows.  
4 5 2  
13 9 3  
(a) 18 (b) 25 (c) 11 (d) 14  
(e) None of the above

**DIRECTIONS (Qs. 41- 45):** A number and word arrangement machine when given an input line of number and words rearranges them following a particular rule in each step. The following is an illustration of an input rearrangement.

Input: name narrow nest nostalgic nature nagative night nephew

Step I: am aorr es agilost artu aegitvghi eehp  
Step II: 14 19 24 21 22 23 16 21  
Step III: 56 95 96 105 88 115 64 105  
Step IV: K25 N81 D81 F1 P64 G1 J36 F1  
Step V: 18 23 24 7 26 8 19 7  
Step VI: 81 25 36 49 64 64 100 49

Step VI is the final output of the above arrangement

Input: Hard Height Handsome Hour Husband Hypertext Honest Hindi

41. How many steps are required to obtain the final output of the given input.  
(a) Four (b) Five  
(c) Six (d) Seven  
(e) None of these
42. Which among the following is the final step of the given input?  
(a) 25 64 1 81 16 36 25 9  
(b) 25 81 81 1 64 16 36 16  
(c) 64 4 81 16 25 64 25 49  
(d) 36 25 49 09 64 25 49 9  
(e) None of these

43. Which of the following element is fourth to the right of the third element from the left end in second last step of the given input?  
(a) 22 (b) 09 (c) 24 (d) 26  
(e) None of these
44. How many even numbers are there in the last step?  
(a) 1 (b) 4 (c) 5 (d) 3  
(e) None of these
45. How many elements are to the right of the '88' in step 3?  
(a) 5 (b) 6 (c) 3 (d) 4  
(e) None of these

**DIRECTION (Q. 46) :** In the question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumption and decide which of the assumption is implicit in the statement.

**Give answer:**

- (a) If only assumption I is implicit  
(b) If only assumption II is implicit  
(c) If either I or II is implicit  
(d) If neither I nor II is implicit  
(e) If both I and II are implicit
46. **Statement:** Government should deploy army to rehabilitate the people displaced due to earthquake.

**Assumptions:**

- I. Army can be used for purposes other than war also.  
II. Only army can rehabilitate the displaced victims of earthquake.

**DIRECTION (Q. 47) :** In the questions below is given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement, you have to assume everything in the statement to be true, and then decide which of the suggested courses of action logically follow(s) for pursuing.

**Give answer:**

- (a) If only I follows.  
(b) If only II follows.  
(c) If either I or II follows.  
(d) If neither I nor II follows.  
(e) If both I and II follow.
47. **Statement:** A number of school children in the local schools have fallen ill after, the consumption of their subsidized tiffin provided by the school authority.

**Courses of action:**

- I. The tiffin facility of all schools should be discontinued with immediate effect.  
II. The government should implement a system to certify the quality of tiffin provided by the school.
48. **Statement:** A slump in home sales has pushed builders' inventory to "unsustainable levels" in the National Capital Region of Delhi, creating conditions for a real price correction that developers have so far avoided.  
Which of the following statements is inferred on the basis of the given statement?  
(a) Demand for houses is quite low in most of the big cities.  
(b) The high inventory level will hamper the ability of launching new projects by the builders.

- (c) Builders in the market who have shown a good track record of delivering on time and on their promises, have been able to garner sales even in this slow market.
- (d) Unless this unsold stock gets absorbed, it will be difficult for consumer confidence to come back in this market.
- (e) High prices have pushed most of the on-sale apartments beyond the reach of average home buyers.
49. World's forests are 'in emergency room'. Study shows that the world lost 12 million hectares of tropical tree cover last year - the equivalent of 30 football pitches a minute - researchers said on Thursday, warning the planet's health was at stake as we depend on forests for our survival from the air we breathe to the wood we use and so on. Which of the following may be the reason of the warning given in the statement?
- (I) Forests and trees make vital contributions to both people and the planet, bolstering livelihoods, providing clean air and water, conserving biodiversity and responding to climate change.
- (II) How to increase agricultural production and improve food security without reducing forest area is one of the great challenges of our times.
- (III) There is quantitative evidence to show that forests are being managed more sustainably.
- (a) Only I is implicit  
(b) Only III is implicit  
(c) Only III and II are implicit  
(d) None is implicit  
(e) Only I, II and III are implicit

**DIRECTION (Q. 50) :** In making decisions about important question, it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments. 'Strong' arguments are those which are important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question. Each question below is followed by two arguments numbered as I and II. You have to decide which of the arguments a strong argument is and which a weak argument is.

**Give answer:**

- (a) If only Argument I is strong  
(b) If only Argument II is strong  
(c) If either Argument I or II is strong  
(d) If neither Argument I nor II is strong  
(e) If both Argument I and II are strong
50. **Statement:** Should only reputed NGO's be authorized to distribute the commodities to the public under the programme of Public Distribution System (PDS)?
- Arguments:**
- I. Yes, the move will be helpful to implement the programme more effectively and will keep a tab on various problems like black marketing of the commodities supplied under PDS.
- II. Yes, NGO's have helped government on many occasions.

**Quantitative Aptitude**

51. Ekansh cover a certain distance in 3 hrs 55 min with A kmph after that he increased his speed by 30 kmph and he travels for next 3 hrs 2 min and he covered 60 km more than his earlier covered distance. Find the approx. value of A?  
(a) 36 (b) 40 (c) 30 (d) 45  
(e) None of these
52. A tank contains 80 litre mixture of Milk and water in which ratio was 4 : 1 respectively. 20 litre mixture was taken out and 24 litre milk was replaced by it. Now 28 litre new mixture was removed to get final mixture. Find the final quantity of water in final mixture?  
(a) 10 (b) 6 (c) 12 (d) 8  
(e) 5
53. P started a business with Rs x, after 8 months Q joined him with Rs (x + 3000). After another one month R also joined them with some investment. Now profit share of Q and R become equal after a year. Profit share of P is twice of profit share of Q. Find the investment made by R?  
(a) Rs. 8000 (b) Rs. 10000  
(c) Rs. 12000 (d) Rs. 15000  
(e) None of these
54. 10 boys can finish a work in 30 days and same work can be finished by 15 girls in same days. Now 20 boys start work and leave the work after 3 days. 30 girls finish remaining work. If total time to finish the work was 21 days. Find the no. of days in which no work was done?  
(a) 4 days (b) 5 days  
(c) 6 days (d) 8 days  
(e) None of these
55. Breadth (b) of a rectangle is 65% less than length (l) of same rectangle. Radius of circle is r mm and area of circle is 616 sq m. relation between r and b is as follow:  $r^2 = 16 \frac{1}{3} (b + 5)$ . Find the area of rectangle.  
(a) 140 sq m (b) 560 sq m  
(c) 420 sq m (d) 280 sq m  
(e) None of these
56. Yuvi invest in Scheme X certain sum Rs. (a + 960) for 6 years at 15% rate of interest, he received Rs. (3a - 420) amount after 6 years. If he invest Rs. b in scheme X for same time than he received Rs. (2a - 280). Find the value of b?  
(a) Rs 3000 (b) Rs 2000  
(c) Rs 2600 (d) Rs 1600  
(e) None of these
57. Dinesh invest total sum of Rs 20000 in two schemes P and Q. He invest in Scheme P and Scheme Q for 3 years and 2 years respectively. Rate of interest in both schemes on SI is 20% and 35% respectively. Interest received from scheme Q is Rs 1600 less than same received from scheme P. Find the 50% of total amount received from scheme P and Q?  
(a) Rs 14400 (b) Rs 17600  
(c) Rs 15600 (d) Rs 16400  
(e) None of these
58. Women in city A is 150% of Men in same city. Men in city B is thrice of Men in city A. Women in city B is 500 more than women in city A. Total population of city B is 180% more than that of city A. Find the number of Men in city A?  
(a) 300 (b) 400  
(c) 200 (d) 500  
(e) None of these

51. Ekansh cover a certain distance in 3 hrs 55 min with A kmph after that he increased his speed by 30 kmph and he

**DIRECTIONS (Qs. 59-60) :** Following questions contain two statements as statement I and statement II. You have to determine which statement/s is/are necessary to answer the question and give answer as,

- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (c) The data either in statement I alone or in statement II alone is sufficient to answer the question.
- (d) The data given in both statements I and II together are not sufficient to answer the question.
- (e) The data given in both statements I and I together are necessary to answer the question.
59. Rs. 15000 was distributed between A, B, C and D. Find the share of B?  
**Statement 1:** A and B together received 25% more than share of C. B received Rs. 1000 less than share of A.  
**Statement 2:** Ratio of share of D and C is 3 : 2.
60. Find the sum of the perimeter of the rectangle and the perimeter of the square.  
**Statement I:** The difference between the length of the rectangle and the side of the square is 20 m.  
**Statement II:** The ratio of the length of the rectangle to the breadth of the rectangle is 4:3 and the radius of the circle is 20% less than the sum of the length and the breadth of the rectangle.

**DIRECTIONS (Qs. 61-62) :** Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give an answer as,

- (a) Quantity I > Quantity II  
 (b) Quantity I  $\geq$  Quantity II  
 (c) Quantity II > Quantity I  
 (d) Quantity II  $\geq$  Quantity I  
 (e) Quantity I = Quantity II (or) Relation cannot be established
61. x, y and z are three positive integers.  
 $x > y$  and  $z = 2x$   
 sum of reciprocal of x and y is three times of difference between reciprocals of x and y.  
 Quantity 1: value of  $0.5y \times z$   
 Quantity 2: value of  $\frac{4y}{2z} \times x^2$
62. A two digit number A whose unit place digit is twice of Ten's place digit. Sum of the two digit number itself A and product of the digits of A is 54.  
 Quantity 1: value of 3A  
 Quantity 2: value of  $2A + 48$

**DIRECTIONS (Qs. 63-64) :** Given the roots of a quadratic equations:  $1/5$  and  $2/3$

63. If quadratic equations derived from these roots divided by 2 and  $2.5x^2 + .5x$  added to it. Find the product of roots of newly formed quadratic equations.  
 (a)  $1/10$  (b)  $2/5$  (c)  $3/10$  (d)  $7/10$   
 (e) None of these

64. Which of following equation will give you same roots?  
 (a)  $20x^2 - 13x + 2 = 0$  (b)  $10x^2 - 9x + 1 = 0$   
 (c)  $15x^2 - 23x + 6 = 0$  (d)  $15x^2 - 22x + 8 = 0$   
 (e)  $15x^2 - 13x + 2 = 0$

**DIRECTIONS (Qs. 65-66) :** Study the given quadratic equations and give answer of the questions.

$$P = 2x^2 - 11x + 12 = 0$$

$$Q = 5x^2 - 12x + 4 = 0$$

$$R = 4x^2 - 25x + 6 = 0$$

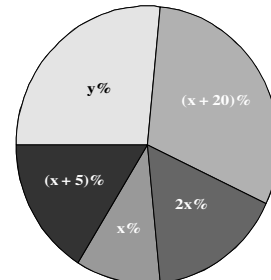
65. Sum of smallest root of equation P and smallest root of equation R?  
 (a)  $1\frac{3}{4}$  (b)  $1\frac{1}{4}$  (c)  $1\frac{1}{2}$  (d)  $1\frac{2}{3}$   
 (e) None of these
66. Which of the following statements are TRUE?  
 Statement 1: Product of roots of equation P is equal to largest root of equation R.  
 Statement 2: Difference between smallest root of equation Q and smallest root of equation R is  $3/10$   
 Statement 3: Ratio of the product of roots of equation P and equation R is 3 : 1.  
 (a) Only 1 and 2 (b) Only 1  
 (c) Only 3 (d) Only 1 and 3  
 (e) Only 2

**DIRECTIONS (Qs. 67-72) :** Study the following pie chart carefully and answer the questions.

Pie chart given below shows the percentage distribution of number of visitors (Male + Female) visited a circus on five different days in a week.

Note: y is  $1/4$ th of the total pie.

Total number of person visited the circus on five different days is 500.



- Monday Tuesday Wednesday Thursday Friday
67. Ratio of children teenagers and adults to attend circus on Thursday is 3 : 3 : X. If adults audience is 6 more than teenagers. Find the sum of children and adults to watch circus on Thursday.  
 (a) 52 (b) 48 (c) 50 (d) 40  
 (e) 45
68. Difference between male and female came for circus on Friday is 75. If ticket price of Male is Rs 20 and for female is Rs 10. Than find which cannot be collection amount on Friday?  
 1. Rs. 2500 2. Rs. 2250 3. Rs. 1500  
 (a) Only 1 and 2 (b) Only 2 and 3  
 (c) Only 1 (d) Only 3  
 (e) Only 2

69. On Saturday visitors came circus are 60% more than that of Friday. Find the ratio of people came to circus on Thursday to the same on Saturday?  
(a) 5 : 4 (b) 4 : 5 (c) 8 : 3 (d) 3 : 8  
(e) None of these
70. Which of the following are incorrect from given statements?  
1.  $y = 2.5x$  2.  $y - x = 20$  3.  $y + 2x = 55$   
(a) Only 2 (b) Only 1  
(c) Only 2 and 3 (d) Only 1 and 2  
(e) Only 1 and 3
71. On Friday, if  $\frac{2}{5}$ th of total person visited the circus were females and out of the total females visited on Friday  $\frac{1}{5}$ th visited for the first time. The total first time visitors on Friday was 10% of the total people visited on all five days. Then find the number of males who visited the circus not for the first time on Friday.  
(a) 30 (b) 40 (c) 35 (d) 45  
(e) 50
72. On Saturday if the number of males visited the circus was double the difference of the number of persons visited the circus on Monday and Wednesday and on Saturday females visited the circus was  $\frac{3}{4}$ th of the total person visited on Saturday. Then find the total person visited the circus on Saturday.  
(a) 640 (b) 780 (c) 550 (d) 800  
(e) None of these

**DIRECTIONS (Qs. 73-77) :** Study the following given data and answer the given questions.

There are 4 colleges in a city for example J, K, L, and M. Here two type of certificate courses is being opted-courses are (P, Q). In the table given total numbers of students and either percentage or actual value in numbers of the students who has taken that particular certificate course.

Some data is missing you will have to find it.

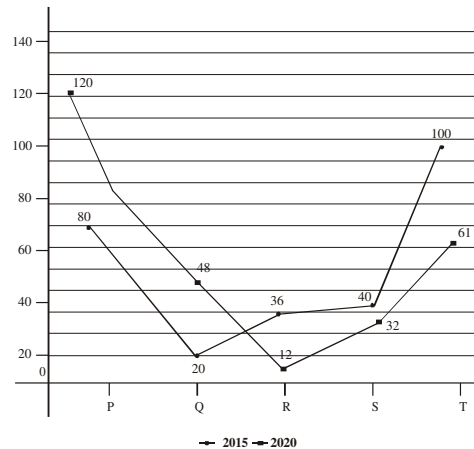
| Colleges | Total | P   | Q   |
|----------|-------|-----|-----|
| J        | 968   | 50% | —   |
| K        | —     | 44% | 504 |
| L        | —     | 408 | —   |
| M        | 840   | 65% | —   |

73. In college N total students are equal to the sum of 3 times of students of course P in college J and  $\frac{1}{3}$  of course Q in college M. Find the ratio of total students of college N and total students of college K?  
(a) 41 : 36 (b) 31 : 18  
(c) 15 : 23 (d) 31 : 27  
(e) None of these
74. Ratio of the students in course P to course Q in college L is 2 : 3. Total students in college L are approx what percent more than that of College K?  
(a) 22% (b) 13% (c) 17% (d) 24%  
(e) None of these
75. In college L, If the percentage range of students in course P lies within  $15 \leq P < 30$  and P is a even multiple of 6 then find the number of students in course Q in college L.  
(a) 1100 (b) 1076  
(c) 1292 (d) 1154  
(e) None of these

76. If the total number of students in college O is 3 times the number of students in course P in college J and the number of students in course Q in college O is  $\frac{3}{4}$ th of the total students in that college. Then find the average of total number of students in course P in college O and the number of students in course Q in college J.  
(a) 378 (b) 412 (c) 356 (d) 424  
(e) None of these
77. If the number of students in course Q in college L is 78 more than four times the difference between total students in college J and M, then find the sum of total number of students in college K and total number of students in college L.  
(a) 1460 (b) 1514 (c) 1626 (d) 1392  
(e) None of these

**DIRECTIONS (Qs. 78-82) :** Study the line graph carefully and answer the questions.

Line graph shows data of 5 different gym members in 2015 and 2020.



78. In 2015 male members of gym Q is less than by male members of gym R. Female member of gym R is 4 times of female members of gym Q. Sum of female members in both gyms are more than 10. Find the possible number of male members in gym R.  
1. 12 2. 24 3. 16 4. 20  
5. 28  
(a) Only 1 and 3 (b) Only 2, 3 and 4  
(c) Only 2, 4 and 5 (d) Only 1, 3 and 4  
(e) All are possible value.
79. Average members of gym S, T and U is 57 in 2020. If male are twice of female members in gym U in given year. Ratio of male to female members in gym S in the same year is 5 : 3. Find the male members of gym U and S together is what percent more than female members in the same gym.  
(a) 94% (b) 82%  
(c) 89% (d) 78%  
(e) None of these
80. In gym U total member in 2020 is equal to difference between total members in both years of gym Q. If difference between male and female of members in gym U is 4. Then find the number of male in gym U  
(a) 16 (b) 12 (c) 18 (d) 20  
(e) Cannot be determined



81. Ticket price for male and female is ₹ 30 and ₹ 20 respectively in both year for gym R. Ratio of male and female is 3 : 5 of total male and female of 2015 and 2020 for gym R then find revenue which was generated by selling tickets of female in gym R in 2015 and 2020.  
(a) ₹ 720 (b) ₹ 650 (c) ₹ 580 (d) ₹ 600  
(e) None of these
82. Total number of female in 2020 gym P is equal to total number of persons in 2015 in gym Q. If total number of female in gym P in both years is 100 then find the male of gym P in both years?  
(a) 30, 20 (b) 40, 50 (c) 40, 60 (d) 20, 80  
(e) 60, 30

**DIRECTIONS (Qs. 83-87) :** Study the data carefully and answer the question given below:

There are three companies which hired employees in three different years. Total number of employees hired in company A in 2016 is 116. Total number of employees hired by company B in three years are 212 and in 2018 are 50. Total number of employees hired by company C are 255. Ratio of employees hired in 2016 and 2017 by company C is 11:20. Number of employees hired by company A in 2018 is  $\frac{3}{4}$  of hired by itself in 2017. Employees hired in 2017 by company C is 125% of employees hired by company A. Ratio of employees hired by company B in 2018 and company C in 2018 is 1:2 respectively. The average of employees hired by company C in 2018, 2017 and employees hired by company B in 2017 is 100.

83. Total number of employees hired by company A is how many more than total number employees hired by company B?  
(a) 60 (b) 44 (c) 56 (d) 72  
(e) None of these
84. Find the ratio between the employees hired by company C in 2016 and company B in 2017.  
(a) 21:80 (b) 27:53 (c) 11:20 (d) 13:50  
(e) 7:15
85. Total number of employees hired by company A in 2018 is how many percentage more than in the same year employees hired by company B?  
(a) 25% (b) 30% (c) 20% (d) 10%  
(e)  $12\frac{1}{2}\%$
86. Find the average of employees in all three years in company A?  
(a) 85 (b) 76 (c) 82 (d) 79  
(e) None of these
87. Find the ratio between the employees hired by company B and C in 2016 and employees hired by company A and B in 2017?  
(a) 11:17 (b) 12:19 (c) 13:21 (d) 13:20  
(e) 21:13

**DIRECTIONS (Qs. 88-90) :** Find out the missing number in the following number series.

88. 256, 304, ?, 436, 520, 616  
(a) 340 (b) 388 (c) 364 (d) 336  
(e) 316
89. 512, 567, 502, ?, 492, 607  
(a) 587 (b) 576 (c) 565 (d) 548  
(e) 592

90. 124, ?, 100, 256, 904, 4078  
(a) 74 (b) 78 (c) 64 (d) 56  
(e) 84
91. The average cost price of all products in an mobile shop is Rs. . If the cost of a mobile and a smart watch is increased by Rs.550 and Rs.290 respectively and the average becomes Rs.70 more, then the total number of products in an mobile shop is .  
A. Rs. 750,12 B. Rs. 1200,8  
C. Rs. 510,7  
(a) Only A (b) Only A and B  
(c) Only C (d) Only A and C  
(e) All A, B and C
92. The quantity of juice in vessel P is 20% more than that of vessel Q and the ratio of the quantity of juice to water in vessels P and Q is 9:2 and 5:2 respectively. The quantity of juice in vessel R is equal to the average of the quantity of juice in vessels P and Q. If the difference between the total quantity of vessel P and Q is 4 liters, then find the ratio of the average quantity of juice in vessel P and vessel Q together to the quantity of water in vessel Q.  
(a) 9:7 (b) 8:5 (c) 7:6 (d) 11:4  
(e) None of these
93. Kiyansh sold two times A and B. Sum of marked price of A and B is Rs 10000. Sum of cost price of A and B is Rs 7200. Sum of selling price of A and B is Rs 8260. Kiyansh gave discount of 20% and earns a profit of Rs. 640 on item A. If markup percentage on item B is 30%. Then find the selling price of item B?  
(a) Rs 4360 (b) Rs 4420  
(c) Rs 4580 (d) Rs 4640  
(e) None of these
94. Difference between curved surface area of cone and cylinder is  $64\pi$  and height of cylinder and cone are equal. Slant height of cone is % more than its radius. If radius of cylinder is % more than radius of cone, Then the volume of cylinder will be  $6912\pi$ .  
(a) 30% and 20% (b) 15% and 40%  
(c) 20% and 60% (d) 25% and 50%  
(e) None of these
95. Three flexible pipes that can serve as inlet as well as outlet pipes have been attached to a cistern. The rates of filling or emptying the cistern by these three pipes are in the ratio 1:2:4. The largest pipe can alone fill the empty cistern in 7 hours. Initially the cistern is full and the three pipes were used as outlet pipes for A hours. After the cistern is emptied, later the smallest pipe alone filled the entire cistern in 28 hours. Find the value of A.  
(a) 3 Hours (b) 4 Hours  
(c) 4.5 Hours (d) 5 Hours  
(e) None of these

**DIRECTIONS (Qs. 96-100) :** What approximate value should come in place of question mark(?).

96.  $83.33\%$  of 119.98 +  $28.15\%$  of 225.12 = ? +  $16.12\%$  of 99.89  
(a) 147 (b) 153 (c) 159 (d) 141  
(e) None of these



97.  $(2856.06 \div 101.891) \times 14.91 = ? + 219.891$   
 (a) 160 (b) 188 (c) 172 (d) 195  
 (e) None of these
98.  $89.904\%$  of 319.879 +  $(682.07 \div \sqrt{960}) \times 15.891 = ? \times 7.891$   
 (a) 76 (b) 90 (c) 80 (d) 84  
 (e) None of these
99.  $69.56\%$  of 479.912 +  $85.714\%$  of 489.921 +  $42.857\%$  of 273.12 = ?  
 (a) 873 (b) 843 (c) 753 (d) 927  
 (e) None of these
100.  $(1273.12 \div \sqrt{360}) \times 14.899 + (6360.087 \div \sqrt{2810}) \div \sqrt{65} = ? \times 11.991$   
 (a) 71 (b) 85 (c) 88 (d) 94  
 (e) None of these

### English Language

**DIRECTIONS Qs. (101- 105):** Read the following passage carefully and answer the questions that follow.

Start-ups are heaving a sigh of relief as the Finance Minister announced measures to do away with the long pending contentious issue of Angel Tax, which many of them had to cough up for raising Angel funding under Section 56 of the Income Tax Act.

Also, special administrative arrangements will be made by the Central Board of Direct Taxes for pending assessments of start-ups and redressal of their grievances. Start-ups have been assured that no inquiry or verification in such cases can be carried out by the Assessing Officer without obtaining approval of his supervisory officer. This provision will do away with much of the angst among start-ups who were subjected to aggressive questioning by the Income Tax department.

A TV channel exclusively for start-ups under the Doordarshan boutique will be designed and executed by start-ups themselves and will also serve as a platform for promoting them, discussing issues affecting their growth, match making with VCs and for funding and tax planning, came as a pleasant surprise to many. Although it remains to be seen how it will be executed on the ground.

The Budget sounded the bugle for fostering rural entrepreneurship for those depending on agriculture and traditional industries by announcing the setting up of 80 Livelihood Business Incubators and 20 Technology Business Incubators this fiscal with the aim to develop 75,000 skilled entrepreneurs in agro-rural industry sectors. "The Government has tried to broad base and foster entrepreneurship beyond metros to Tier 2 and 3 cities which is a good sign. And doing away with Angel Tax is welcome" said Bhaskar Majumdar, Managing Partner, Unicorn India Ventures.

101. Which of the following statements can be said regarding the government's sectoral thrust on start-ups in the nation?
- (a) The government has made sure that the primary sector of the country gets the fair share of attention from the start-up industry.
- (b) According to the government, the start-up industry should first prove to be profitable in the country before expanding to other areas.

- (c) The government has made the decision to eliminate any friction between the various economic sectors.
- (d) The government has ensured that all economic sectors receive the necessary attention for expansion and development.
- (e) None of the above
102. Which of the following is true about the government's attitude toward the country's startup economy?
- (a) The economy of the country has been given a lifeline but there are a lot of questions to ponder over that.
- (b) Despite the fact that the government has done nothing to assist startups, the nation's economy is primarily concerned about them.
- (c) The nation continues to rely on large industrial corporations to maximize their tax payments..
- (d) The government has understood the importance of the startups in the economy and is positive about the development of this economy.
- (e) None of the above
103. Which among the following is /are correct regarding the TV channel that has been announced by the government in the Budget?
- I. This new channel will be run by the government with the experts from the government organizations.
- II. This new channel will be financed by the public sector banks with a fresh round of capital from the government only.
- III. This new channel will attempt at saving the taxes of the startup founders by the experts.
- (a) Both II and III (b) Both I and III
- (c) Both I and II (d) Only III
- (e) None of I, II and III
104. What is the opinion of the author regarding the TV channel that has been proposed to be set up by the government?
- (a) The author is excited about the new TV channel since it will bring a lot of interest in the sector.
- (b) The author has nothing to say regarding the new TV channel that has been proposed in the Union Budget.
- (c) The author is cautious in his reaction because he wants to see if the government is able to make it work actually.
- (d) The author is disappointed with this decision for the fact that the government should have done something more worthwhile for the startups in India.
- (e) None of the above
105. Which among the following is/are correct regarding the Angel Tax levied by the government on the startups in India?
- I. Angel Tax is levied on companies that raise capital from the angel investors only and not from others sources.
- II. Angel Tax is not defined in the Income Tax legislation and the government had to implement it separately.
- III. Angel Tax is not going to be levied on the companies that go out of business from this year onwards.
- (a) Both I and II (b) Only I
- (c) Both II and III (d) Both I and III
- (e) All I, II and III

**DIRECTIONS Qs. (106- 112):** Read the following passage carefully and answer the questions that follow.

We did an interesting experiment in Mumbai some time back. We got 98 households across a few housing societies in Bandra and Khar to provide us with their electricity bills before the bills reached each member's house. We then calculated the average bill amount in that particular society.

Let's say the average was Rs 1,022. For all above-average users, we put a stamp stating that the average in that society is Rs 1,022. Next to their above average amount, we put a frownie indicating that they could do better.

The average number set the social norm and got the above average users to act like their neighbours and reduce their electricity consumption by 1.33 per cent. 1.33 per cent sounds small, but it can power 17,465 villages for one whole year. We called the experiment People Power because it gives people the power to make a difference at no cost.

Human behaviour is **contagious**. Our actions are often guided by how people around us are behaving. The information provided by the stamp let the above-average users know how much their neighbours were consuming.

That set the social norm and got them to reduce their power consumption. We do as others do. If people see other people littering, they litter too. If people see other people throwing waste in dustbins, they use dustbins too. If people see other people cheating, they cheat too. If people see other people being honest, they behave honestly too.

Behavioural science studies show that people dress in the same styles as their friends, pick dishes preferred by other diners, choose restaurants that are more crowded, are more likely to get fat if people around them become fat, are more likely to quit smoking if their friends quit, pay taxes if others are paying, vote if their spouse votes, and so on. A five-star review on Amazon leads to approximately 20 more books sold than one-star reviews.

This behavioural science principle of 'social proof' made a popular American infomercial for a home shopping channel change the all-too familiar call-to-action line at the end of the infomercial, "Operators are waiting, please call now" to "If operators are busy, please call again". This simple change led to its sales **skyrocketing**.

On the face of it, the change seems **foolhardy**. After all, the message indicates that one may have to waste their time redialling till they reach a sales representative. Yet it worked so brilliantly.

Consider the kind of mental image that's likely to get generated when you hear, 'Operators are waiting, please call now' — scores of bored phone representatives while they wait by their silent telephones — an image indicative of low demand and poor sales.

Consider how your perception of the popularity of the product would change when you hear, 'If operators are busy, please call again' — operators going from phone call to phone call without a break, right? That made people think: 'If the phone lines are busy, then other people like me who are also watching this infomercial must be calling too.'

Most people think they are different. But in reality most of us behave the way others do. So powerful is the effect of others

on us that television executives love to fill comedy shows with canned laughter.

Experiments by lots of behavioural scientists have found that the use of canned laughter causes an audience to laugh longer and more often when humorous material is presented. People rate the material as funnier. In addition, evidence indicates that canned laughter is most effective for poor jokes.

In another experiment conducted by behavioural scientists Noah Goldstein, Robert Cialdini and Vidas Griskevicius ('A Room with a Viewpoint: Using Social Norms to Motivate Environmental Conservation in Hotels', [goo.gl/OJT1pb](http://goo.gl/OJT1pb)), different kinds of signs were placed in hotel rooms. One of the signs asked guests to help save the environment by reusing their towels.

The second one informed them that the majority of guests at the hotel recycled their towels to help save the environment. The second sign had a success rate of 26 per cent more than the first sign.

A third sign informed guests that majority of people who had previously stayed in their particular room recycled their towels to help save the environment. The third sign had a success rate of 33 per cent more than the first sign.

Now only if hotels could apply the same principle to reducing theft of towels, shampoos, bed sheets, stationary and, yes, appliances too.

(Source: 'Economic Times' dated December 29th, 2016 and Jagran Josh)

106. Why do you think that human behaviour is contagious, according to the author?
  - (a) We are wired to interact with others and form bonds.
  - (b) We imitate the behaviours and habits of others.
  - (c) Our behaviour is influenced by how those around us behave.
  - (d) Other than those given in the options.
  - (e) All of the above
107. How this behavioral science principle helped a popular American infomercial?
  - (a) Their mental image was improved.
  - (b) Their sales were skyrocketing.
  - (c) The perception of their customers changed.
  - (d) It was hard to resist their offer.
  - (e) Other than those given in the options.
108. Why, according to the author, the television executives fill comedy shows with canned laughter?
  - (a) They don't have anything else to show.
  - (b) People like to laugh at others.
  - (c) People laugh more on poor jokes.
  - (d) Both (b) and (c).
  - (e) Other than those given in the options.
109. Why, according to the passage, the experiment was called as "People Power"?
  - (a) Because it gives people the power to socialize and mingle with others.
  - (b) Because it gives people the power to make a difference at no cost.
  - (c) Because it gives people the power to copy others, without feeling ashamed.
  - (d) Because it gives people the power to listen to their souls.
  - (e) Other than those given in the options.

110. Which among the following is similar in meaning to the word 'skyrocketing' used in the passage?  
 (a) Descending (b) Tumble  
 (c) Escalating (d) Smashing  
 (e) Other than those given in the options
111. Which among the following is similar in meaning to the word 'contagious' as used in the passage?  
 (a) Transmissible (b) Immoral  
 (c) Non violent (d) Precious  
 (e) Other than those given in above options
112. Which among the following is opposite in meaning to the word 'foolhardy' as used in the passage?  
 (a) Bold (b) Wise  
 (c) audacious (d) Foolish  
 (e) Other than those given in the options

**DIRECTIONS Qs. (113-117):** In the questions given below, a sentence has been broken down into four fragments labeled (A), (B), (C) and (D) and arranged, not necessarily in the correct order. You have to find the correct order of arrangement from the options given below. In case, the sentence is correct in its original form, please select (E) as your answer.

113. 2016, but little money has come in as retailers want (A) / like soaps and shampoos for customers (B) / permission to stock a few non-food items (C) / 100% FDI was allowed in the food retail business in (D)  
 (a) CBAD (b) BACD  
 (c) BADC (d) DACB  
 (e) No rearrangement required
114. of plastic articles also show little (A) / remain on paper while the producers (B) / the Solid Waste Management Rules mostly (C) / concern about their negative environmental impact (D)  
 (a) CABD (b) CBAD  
 (c) DBCA (d) DABC  
 (e) No rearrangement required
115. A federation of 130 farmer bodies has decided (A) / dairy produce to major cities and hold a (B) / to stop supplies of vegetables and (C) / dharna on 30 national highways to protest against rising prices (D)  
 (a) ACBD (b) BCDA  
 (c) CABD (d) CBDA  
 (e) No rearrangement required
116. the dignity of the government lies in its moral (A) / capacity to perceive and confront the lived truth, (B) / such as the widespread despair, frustration, and (C) / irreparable loss of dignity leading to farmers' suicides (D) /  
 (a) BCAD (b) CDBA  
 (c) ADCB (d) DCAB  
 (e) No rearrangement required
117. the Emergency, the real story of the buying and selling of the media began with (A) / of media organisations began to be chipped away at until it disappeared (B) / the advent of liberalisation, when the wall dividing the business from the editorial side (C) / leaving aside the compromises the majority of media houses made in the 1970s during (D) /

- (a) DACB (b) DBCA  
 (c) CBDA (d) BCAD  
 (e) No rearrangement required

**DIRECTIONS Qs. (118-121):** In this question, a sentence has been divided into four parts marked as I, II, III and IV. You need to find which part/parts does not/do not have an error in terms of its grammatical or contextual usage. If the sentence is absolutely correct, mark (E) as your answer.

118. I. The supreme court of India disapproved  
 II. The practice of constituting commissions of inquiry  
 III. At the cost of taxpayers and let them continue for years together  
 IV. Without serving any useful purpose.  
 (a) Only I and III (b) Only II and IV  
 (c) Only IV (d) Only III  
 (e) No error
119. I. Between 2010 and 2017, several countries  
 II. Make rapid progress  
 III. In reducing HIV incidence and  
 IV. Getting antiretroviral therapy of patients.  
 (a) Only I and IV (b) Only I and III  
 (c) I, III and IV (d) Only I  
 (e) No error
120. I. A group of banks, including public sector, private sector and foreign banks,  
 II. have recently signed an inter-creditor agreement  
 III. to push for the speedy resolution of  
 IV. Non-performing loans on their balance sheets.  
 (a) Only II and III (b) Only II and IV  
 (c) I, III and IV (d) I, II and III  
 (e) No error
121. I. We continue to be hidebound with tradition  
 II. And waste precious time and money  
 III. In rituals which may have been relevant in earlier times  
 IV. But which have no relevance to modern living.  
 (a) Only II (b) Only II and IV  
 (c) I, III and IV (d) Only III and IV  
 (e) No error

**DIRECTIONS Qs. (122-125):** In each of the questions below, four words are in bold. These four words may or may not be in the correct position. The sentence is followed by options containing the correct combination of words. These options must replace each other to make the sentence grammatically and contextually correct. Find suitable combinations of words that replace each other. If the sentence is correct, please select option (e)

122. Delhi has benefited (1) from stringent testing measures, priority offered (2) of cases and their contacts and the medical (3) support that has been containment (4) to patients at home isolation.  
 (a) 2-3 (b) 1-4 (c) 2-4 (d) 1-3  
 (e) None of these
123. India's clinical testing (1) has focused on early detection (2) through widespread protocol (3) surveillance, prompt triaging (4) and clinical management of cases.  
 (a) 2-3 (b) 1-4 (c) 2-4 (d) 1-3  
 (e) None of these

124. The agency's application (1) seeking his custody was on the grounds (2) that it had to confront (3) him with data recovered from seized (4) electronic articles.  
(a) 1-2 (b) 3-4 (c) 2-3 (d) 1-4  
(e) None of these
125. I got disillusioned (1) by CPI ideology but the recent motivated (2) being undertaken in Swabhiman Anchal development (3) me to join the mainstream (4)  
(a) 1-2 (b) 3-4 (c) 2-3 (d) 1-4  
(e) None of these

**DIRECTIONS Qs. (126-130):** In each of the following questions, a sentence is given with a phrase highlighted. These phrases may or may not be correct. Following the sentences are four phrases, from which one phrase will replace the incorrect phrase. The number of that correct phrase will be your answer. If the phrase is correct then option (e) i.e. "No improvement" will be your answer.

126. People scramble to stocked essentials ahead of the 10-day lockdown commencing at the midnight of July 13.  
(a) Scrambled to stock essentials  
(b) Scrambles to stock essential  
(c) Scrambled to stocked essentials  
(d) Scrambled to stocks essentials  
(e) No improvement
127. Economic policies formulated by the IAS officers are generally above the power of comprehension off most of the ministers.  
(a) the powers of comprehension off  
(b) the powerful of comprehension of  
(c) the power in comprehension of  
(d) the power of comprehension of  
(e) No correction required
128. The minister didn't respond to an email requesting an interview, and a call to her office wasn't answered.  
(a) respond to an email request  
(b) respond to a email requesting  
(c) respond with an email requesting  
(d) responded to an email requesting  
(e) No correction required
129. Non-performing assets have led to a seizure of new lending and the caving off of credit culture.  
(a) the caving of credit culture  
(b) the caving in of credit culture  
(c) the caving off in credit culture  
(d) the caves of credit culture  
(e) No correction required
130. Much of the religious tension in the country is due to fake news that gets away via social media.  
(a) fake news that got away  
(b) fake news that gets about  
(c) fake news that gets up  
(d) fake news that gets down  
(e) No correction required

**DIRECTIONS Qs. (131-135):** Rearrange the following seven sentences A, B, C, D, E, F and G in the proper sequence to form a meaningful paragraph and then answer the question given beside.

- A. Providing benefits for women and children is a societal responsibility which can be funded in a large country through a combination of general taxation and contributory payments.
- B. This should further lead to closer scrutiny of the difficulties faced by unorganised workers who fall beyond the scope of any worthwhile labour welfare measures.
- C. The enhancement of paid maternity leave for women in the organised sector to 26 weeks from 12 is a progressive step.
- D. The reported move to restrict even this meagre benefit to the first child for budgetary reasons is retrograde and must be given up.
- E. Positive though it is, the amended law is expected to cover only 1.8 million women, a small subset of women in the workforce.
- F. For many poor millions in the unorganised sector, the only support available is a small conditional cash benefit of Rs. 6,000 during pregnancy and lactation offered under the Maternity Benefit Programme.
- G. It is wholly welcome that such a benefit is being introduced with an amendment to the Maternity Benefit Act, 1961.
131. Which of the following would be the SECOND sentence after rearrangement?  
(a) F (b) A (c) E (d) B  
(e) G
132. Which of the following would be the FOURTH sentence after rearrangement?  
(a) D (b) A (c) E (d) G  
(e) B
133. Which of the following would be the FIRST sentence after rearrangement?  
(a) C (b) G (c) D (d) B  
(e) A
134. Which of the following would be the LAST BUT ONE sentence after rearrangement?  
(a) B (b) F (c) E (d) C  
(e) D
135. Which of the following would be the THIRD sentence after rearrangement?  
(a) E (b) G (c) F (d) A  
(e) B

**DIRECTIONS Qs. (136-140):** In the following questions, a sentence is given with two blanks. You have to find the pair of words from the given options that fit both the blanks in the given order and make the sentence grammatically and contextually correct.

136. Congress leaders stress that this manifesto \_\_\_\_\_ the needs and \_\_\_\_\_ of the marginalised sections of society.  
(a) indicates, qualities (b) addresses, aspirations  
(c) includes, requirements (d) covers, inspirations  
(e) None of the above
137. It is now important for the central bank to \_\_\_\_\_ that the discipline in the system does not \_\_\_\_\_.  
(a) command, wrecked (b) notice, week  
(c) maintain, exist (d) ensure, slacken  
(e) None of the above



138. The terrorists wanted to \_\_\_\_\_ communal tensions and \_\_\_\_\_ Sri Lanka's fragile ethno-religious matrix.  
 (a) stoke, exploit (b) fuel, enhance  
 (c) regret, helps (d) stop, provide  
 (e) improves, outsource
139. In her, the \_\_\_\_\_ Gujarat riots have forged an iron spirit that will \_\_\_\_\_ other embattled women to fight for justice.  
 (a) emotional, change (b) ancient, intend  
 (c) horrific, inspire (d) terrified, motive  
 (e) violent, assure
140. China \_\_\_\_\_ its arrival in the private sector space race last week, as OneSpace became the first Chinese company to launch a small rocket—its first step towards sending \_\_\_\_\_ small satellites in space.  
 (a) Portrayed, smooth (b) Colored, some  
 (c) Marked, numerous (d) Dealt, more  
 (e) None of the above

### General/Finance Awareness

141. The Nobel Prize in Chemistry 2022 was awarded to  
 (a) Carolyn R. Bertozzi (b) Morten Meldal  
 (c) K. Barry Sharpless (d) All of The Above  
 (e) None of the above
142. As announced in the Monetary Policy Statement 2022-23 dated December 07, 2022, the Bank Rate is revised upwards by  
 (a) 6.2% (b) 6.3% (c) 6.4% (d) 6.5%  
 (e) 6.6%
143. The existing Foreign Trade Policy 2015-20 which is valid up to September 30, 2022 is extended up to  
 (a) February 28, 2023 (b) March 31, 2023  
 (c) April 31, 2023 (d) September 31, 2023  
 (e) October 31, 2023
144. What is the Ranking of India in Global Innovation Index ?  
 (a) 40th (b) 41th (c) 42th (d) 43rd  
 (e) 44th
145. Bomb Cyclone is related to  
 (a) USA (b) Canada  
 (c) Russia (d) India  
 (e) Pakistan
146. Which is the largest producer of Cement?  
 (a) Russia (b) China  
 (c) Mexico (d) Ukraine  
 (e) Turkmenistan
147. Sberbank is a state-owned banking and financial services company of which country?  
 (a) USA (b) South Korea  
 (c) China (d) Russia  
 (e) Afghanistan
148. First time in history, India has crossed .....billion in merchandise exports.  
 (a) USD 400 Billion (b) USD 500 Billion  
 (c) USD 600 Billion (d) USD 700 Billion
149. The Reserve Bank of India (RBI) in a discussion paper has said the non-banking financial services will be regulated in a layered structure.  
 (a) Two (b) Three  
 (c) Four (d) Five  
 (e) Six
150. Holcim Limited is a multinational company that manufactures building materials belongs to which country?  
 (a) England (b) Switzerland  
 (c) Germany (d) France  
 (e) Italy
151. PCA Framework does not includes  
 (a) Customer Service (b) Leverage  
 (c) Capital (d) Asset Quality  
 (e) CRAR
152. Banking Ombudsman is a quasi judicial authority created in 2006, and the authority was created pursuant to a decision made by the Government of India to enable resolution of complaints of  
 (a) customers (b) Banking Staff  
 (c) Farmer (d) Labour  
 (e) Politician
153. Who is the Richest self made women according to Hurun Global Rich List 2022?  
 (a) Falguni Nayar (b) Kiran Mazumdar  
 (c) Roshni Nadar (d) Wu Yajun  
 (e) All of the above
154. Kumbhalgarh Fort is related to which State?  
 (a) Madhya Pradesh (b) Uttarakhand  
 (c) Maharashtra (d) Rajasthan  
 (e) Andhra Pradesh
155. The cheetah was declared extinct from India in  
 (a) 1950 (b) 1952 (c) 1953 (d) 1954  
 (e) 1955
156. SDR is issued by which organisation?  
 (a) World Bank  
 (b) World Trade Organisation  
 (c) International Monetary Fund  
 (d) United Nation  
 (e) UNICEF
157. Indian plans to expand its regional satellite navigation system, to increase its use in the civilian sector and ships, aircraft travelling far from the country's borders. What does C stands for  
 (a) Constant (b) Competition  
 (c) Constellation (d) Collection  
 (e) Column
158. Which city is the most liveable city in Global Liveability Index 2022?  
 (a) Vienna (Austria) (b) Zurich (Switzerland)  
 (c) Copenhagen (Denmark) (d) Calgary, Canada  
 (e) Ottawa, Canada
159. What does k stands for KLEMS Model?  
 (a) Kingship (b) Kenlaw  
 (c) Cooperation (d) Capital  
 (e) Commerce
160. How many Public Sector Bank listed in India?  
 (a) 12 (b) 14 (c) 15 (d) 17  
 (e) 19
161. Who sponsored Indian Super League?  
 (a) Hero (b) Byju  
 (c) Coca Cola (d) Spice  
 (e) Unacademy



162. is a cyber crime that uses the phone to steal personal confidential information from victims.  
 (a) Phishing (b) Vishing  
 (c) Online Fraud (d) Skimming  
 (e) Sim Swap
163. Who is the trustee of PM Cares Fund?  
 (a) Sudha Murthy (b) Arundhiti Roy  
 (c) Geeta Gopinath (d) Gautam Adani  
 (e) Mukesh Ambani
164. Which of the following External debt is contracted?  
 (a) Currency & Deposits  
 (b) Trade Deficit & advances  
 (c) Trade Credit & advances  
 (d) Long Term Borrowing  
 (e) Debt Securities
165. Eliud Kipchoge, kenyan marathon runner won Olympic 2020. Previously, he won the Gold Medal in which olympics?  
 (a) 2018 (b) 2016 (c) 2014 (d) 2012  
 (e) 2013
166. Who is called "glasnost Russian"?  
 (a) Vladimir Putin  
 (b) Boris Nikolayevich Yeltsin  
 (c) Mikhail Gorbachev  
 (d) All of The Above  
 (e) None of the Above
167. Windfall tax applied to which sector  
 (a) Road (b) Land  
 (c) Energy (d) Health  
 (e) Water
168. Financial assets to BSNL and MTNL by govt in form of the government has listed for sale real estate assets of state-run telecom firms MTNL and BSNL at a reserve price of  
 (a) Rs. 970 Crore (b) 1000 Crore  
 (c) 1270 Crore (d) 1470 Crore  
 (e) 1480 Crore
169. In which Year, Indian Population expected to cross China?  
 (a) 2040 (b) 2050  
 (c) 2060 (d) 2080  
 (e) 2090
170. Which ministry of India has awarded Meghalaya as best start up ecosystem?  
 (a) Ministry of Commerce  
 (b) Ministry of Power  
 (c) Ministry of Home Affairs  
 (d) Ministry of Micro, small, medium Enterprises  
 (e) Ministry of Earth Science
171. As per the States, which state has topped the chart in the category of best-performing states in the Swach Survekshan Awards 2022?  
 (a) Madhya Pradesh (b) Uttar Pradesh  
 (c) Meghalaya (d) Uttarakhand  
 (e) Karnataka
172. Who is the Sponsor of NARCL?  
 (a) Bank of Baroda (b) Canara Bank  
 (c) Bank of India (d) Union Bank of India  
 (e) Allahabad Bank
173. How many cities surveyed under Inflation Expectations Survey of Households?  
 (a) 10 (b) 15 (c) 17 (d) 19  
 (e) 21
174. RBI appointed R S Gandhi as Non Executive Chairman of the Yes Bank for a period of  
 (a) 2 Years (b) 3 Years  
 (c) 4 Years (d) 5 Years  
 (e) 6 Years
175. RBI has recently issued guidelines for Digital Lending. Asset Performance Report includes  
 (a) Cost of funds, (b) Credit cost  
 (c) Operating cost (d) Processing fee  
 (e) All of the above
176. Which organisation threshold B2B e Invoice (annual) ?  
 (a) Central Board of Direct Taxes  
 (b) Central Board of Indirect Taxes  
 (c) Reserve Bank of India  
 (d) Niti Ayog  
 (e) Ministry of Agriculture
177. Which Indian topped the IIFL List?  
 (a) Mukesh Ambani (b) Indira Nooyi  
 (c) Gautam Adani (d) Radhakishan Damani  
 (e) Kiran Mazumdar
178. What is the maximum limit of Credit Guarantee Scheme for Startups for Non Banking Financial Companies ?  
 (a) Rs 10 Crore (b) Rs 8 Crore  
 (c) Rs 6 Crore (d) Rs 4 Crore
179. Liability Index is related to  
 (a) Marginal Rate (b) Discount Rate  
 (c) Profit Rate (d) Fixed Rate  
 (e) Floating Rate
180. India has signed MOU with which organization to raise Fund for Pradhan Mantri Matsya Sampada Yojana?  
 (a) IMF  
 (b) World Bank  
 (c) Asian Infrastructure Investment Bank  
 (d) National Development Bank  
 (e) Asian Development Bank
181. Education 4.0 India report is the result of a collaboration between YuWaah (Generation Unlimited India) and  
 (a) UNESCO (b) UNICEF  
 (c) World Bank (d) a & b  
 (e) None of the above
182. How many Banks are listed in National Stock Exchange Limited?  
 (a) 10 (b) 12 (c) 15 (d) 20  
 (e) 21
183. Under which Government Scheme, an assured monthly pension of Rs. 3000/- given to beneficiary after the age of 60 years?  
 (a) Atal Pension Scheme  
 (b) Pradhan Mantri Vaya Vandana Scheme  
 (c) Pradhan Mantri Kisan Maandhan Yojana  
 (d) Varistha Pension Scheme  
 (e) Indira Gandhi National Old Age Pension
184. Banking Ombudsman applies to which FIs  
 (a) NBFC (b) SEBI  
 (c) MSME (d) Credit Agency  
 (e) Credit Information Companies

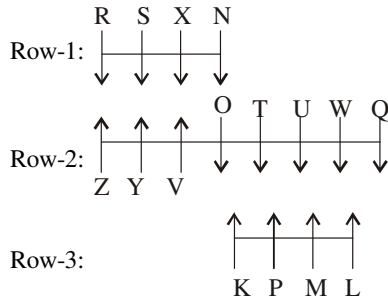
185. On September 2022, RBI lifts curbs on which Financial Institution for loan recovery through outsourcing?  
 (a) India Post Payment Bank  
 (b) Mahindra & Mahindra Financial Services  
 (c) Shriram Transport Finance Company Limited  
 (d) Bajaj Finance Limited.  
 (e) Muthoot Finance Ltd
186. Under Pradhan Mantri Garib Kalyan Yojana (PMGKY), the limit for collateral-free loans for women's SHGs was doubled from Rs.10 lakh to  
 (a) 20 Lakh (b) 30 Lakh  
 (c) 40 Lakh (d) 50 Lakh  
 (e) 60 Lakh
187. Which of the following statement about Global Innovation index is/are correct?  
 1) The Global Innovation Index is an annual ranking of countries by their capacity for, and success in, innovation, published by the World Intellectual Property Organization.  
 2) It was started in 2007 by INSEAD and World Business, a British magazine.  
 3) It reveals the most innovative economies in the world, ranking the innovation performance of around 130 economies.
- (a) 1 Only (b) 2 only  
 (c) 1 & 2 (d) None of The Above  
 (e) 1 & 3
188. Which of the following statement about National Assets Construction Limited is/are correct?  
 1) The National Asset Reconstruction Company Ltd. (NARCL), set up to take over large bad loans of more than ₹ 500 crore from banks.  
 2) The SARFAESI Act, 2002 provides the legal basis for the setting up of ARCs in India.  
 3) Setting up of NARCL, the proposed bad bank for taking over stressed assets of lenders, was announced in the Budget for 2022-23.
- (a) 1 Only (b) 2 Only  
 (c) 1 & 2 (d) 1 & 3  
 (e) None of the above
189. How many companies are in upper layer list of NBFC?  
 (a) 12 (b) 14 (c) 16 (d) 18  
 (e) 20
190. The EXIM Letter of Credit policy can reduce a bank's risks on confirmations and negotiations of irrevocable letters of credit issued by overseas financial institutions for the financing of exports of which Country?  
 (a) UK (b) USA  
 (c) Switzerland (d) Poland  
 (e) Australia

## ANSWER KEY

|    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | (c) | 21 | (c) | 41 | (c) | 61 | (e) | 81  | (d) | 101 | (a) | 121 | (e) | 141 | (d) | 161 | (a) | 181 | (d) |
| 2  | (d) | 22 | (a) | 42 | (b) | 62 | (c) | 82  | (c) | 102 | (d) | 122 | (c) | 142 | (d) | 162 | (b) | 182 | (c) |
| 3  | (c) | 23 | (c) | 43 | (c) | 63 | (a) | 83  | (b) | 103 | (d) | 123 | (d) | 143 | (b) | 163 | (a) | 183 | (c) |
| 4  | (d) | 24 | (d) | 44 | (b) | 64 | (e) | 84  | (c) | 104 | (c) | 124 | (e) | 144 | (a) | 164 | (d) | 184 | (a) |
| 5  | (c) | 25 | (b) | 45 | (c) | 65 | (a) | 85  | (c) | 105 | (b) | 125 | (c) | 145 | (a) | 165 | (b) | 185 | (b) |
| 6  | (b) | 26 | (a) | 46 | (a) | 66 | (b) | 86  | (a) | 106 | (e) | 126 | (a) | 146 | (b) | 166 | (c) | 186 | (a) |
| 7  | (c) | 27 | (c) | 47 | (b) | 67 | (a) | 87  | (d) | 107 | (b) | 127 | (d) | 147 | (d) | 167 | (c) | 187 | (c) |
| 8  | (d) | 28 | (d) | 48 | (e) | 68 | (c) | 88  | (c) | 108 | (d) | 128 | (e) | 148 | (b) | 168 | (a) | 188 | (c) |
| 9  | (c) | 29 | (b) | 49 | (a) | 69 | (d) | 89  | (a) | 109 | (b) | 129 | (b) | 149 | (c) | 169 | (b) | 189 | (c) |
| 10 | (a) | 30 | (a) | 50 | (a) | 70 | (c) | 90  | (c) | 110 | (c) | 130 | (b) | 150 | (b) | 170 | (a) | 190 | (b) |
| 11 | (a) | 31 | (c) | 51 | (c) | 71 | (c) | 91  | (a) | 111 | (a) | 131 | (d) | 151 | (a) | 171 | (a) |     |     |
| 12 | (e) | 32 | (d) | 52 | (d) | 72 | (d) | 92  | (d) | 112 | (b) | 132 | (c) | 152 | (a) | 172 | (b) |     |     |
| 13 | (e) | 33 | (d) | 53 | (c) | 73 | (b) | 93  | (b) | 113 | (d) | 133 | (a) | 153 | (d) | 173 | (d) |     |     |
| 14 | (a) | 34 | (a) | 54 | (c) | 74 | (b) | 94  | (e) | 114 | (b) | 134 | (e) | 154 | (d) | 174 | (b) |     |     |
| 15 | (d) | 35 | (b) | 55 | (a) | 75 | (c) | 95  | (b) | 115 | (a) | 135 | (b) | 155 | (b) | 175 | (e) |     |     |
| 16 | (d) | 36 | (d) | 56 | (b) | 76 | (d) | 96  | (a) | 116 | (e) | 136 | (c) | 156 | (c) | 176 | (b) |     |     |
| 17 | (c) | 37 | (c) | 57 | (d) | 77 | (b) | 97  | (e) | 117 | (a) | 137 | (d) | 157 | (c) | 177 | (c) |     |     |
| 18 | (a) | 38 | (a) | 58 | (c) | 78 | (b) | 98  | (c) | 118 | (b) | 138 | (a) | 158 | (a) | 178 | (a) |     |     |
| 19 | (e) | 39 | (e) | 59 | (e) | 79 | (c) | 99  | (a) | 119 | (b) | 139 | (c) | 159 | (d) | 179 | (b) |     |     |
| 20 | (b) | 40 | (b) | 60 | (d) | 80 | (e) | 100 | (b) | 120 | (c) | 140 | (c) | 160 | (a) | 180 | (b) |     |     |

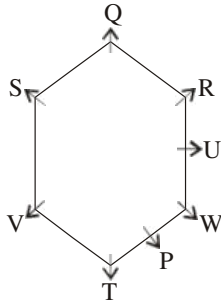
# ANSWERS & EXPLANATIONS

Sol. (1-5) :



1. (c) 2. (d) 3. (c) 4. (d) 5. (c)

Sol. (6-10) :



6. (b) 7. (c) 8. (d) 9. (c) 10. (a)

Sol. (11-15) :

| Employees | Date of Joining | Work ing Experience |
|-----------|-----------------|---------------------|
| R         | 12th Jan        | 5 Years             |
| T         | 15th Jan        | 8 Years             |
| P         | 24th Jan        | 9 Years             |
| Q         | 18th July       | 10 Years            |
| U         | 26th July       | 13 Years            |
| S         | 27th Sept       | 16 Years            |

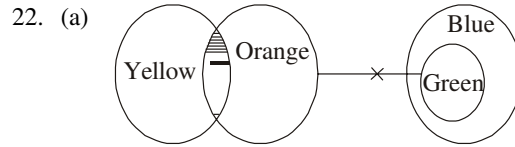
11. (a) 12. (e) 13. (e) 14. (a) 15. (d)

Sol. (16-20) :

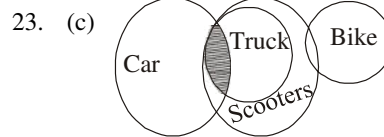
| Person | Colour | City     |
|--------|--------|----------|
| A      | Grey   | Dehradun |
| E      | White  | Kolkata  |
| D      | Blue   | Churu    |
| F      | Black  | Gangtok  |
| G      | Red    | Patna    |
| B      | Pink   | Noida    |
| C      | Bronze | Gaya     |

16. (d) 17. (c) 18. (a) 19. (e) 20. (b)

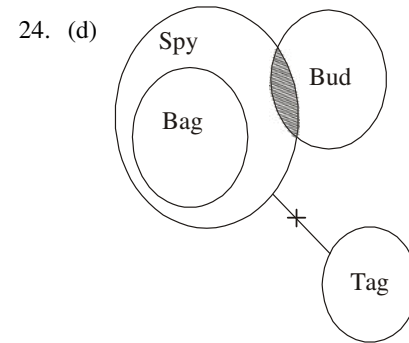
21. (c) HEADPHONE



Hence, only conclusion I follows.



Hence, either conclusion I or II follows.



Hence, neither conclusion I nor II follows.

Sol. (25-26) :

|   |   |   |   |    |
|---|---|---|---|----|
| # | * | @ | & | \$ |
| < | > | = | ≥ | ≤  |

25. (b)  $F \geq D > X \leq Z$ ,  $B > X$

I.  $F > B$  (false)

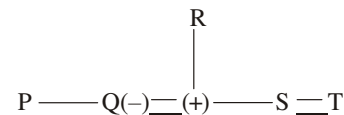
II.  $X < F$  (true)

III.  $B > F$  (false)

26. (a)  $D > H \leq X = F \geq M$

I.  $M < X$  (false) II.  $F < D$  (false) III.  $H = M$  (false)

27. (c)



Hence, Q's husband is brother-in-law of T.

28. (d) B — E

A — C(+) — D(-)

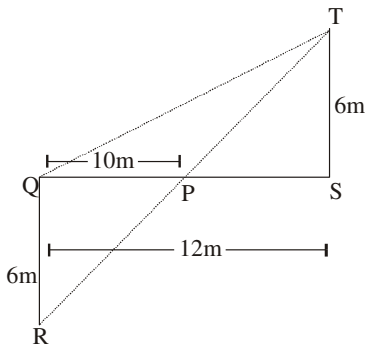
Hence, C is son of E.

29. (b) J(-) M

(-)L — K(+) — N

Hence, L is the sister-in-law of N.

Sol. (30-32) :



Now, in  $\Delta QST$  by using pythagoras theorem,

$$(QT)^2 = (QS)^2 + (ST)^2 \\ = (12)^2 + (6)^2$$

$$\Rightarrow (QT)^2 = 144 + 36 = 180$$

$$\Rightarrow QT = \sqrt{180} \text{ m}$$

Now, in  $\Delta PQR$  by using pythagoras theorem,

$$(PR)^2 = (PQ)^2 + (QR)^2 \\ = (10)^2 + (6)^2$$

$$\Rightarrow (PR)^2 = 100 + 36 = 136$$

$$\Rightarrow PR = \sqrt{136} \text{ m}$$

Now, in  $\Delta PST$  by using pythagoras theorem,

$$(PT)^2 = (PS)^2 + (ST)^2 \\ = (2)^2 + (6)^2$$

$$\Rightarrow (PT)^2 = 4 + 36 = 40$$

$$\Rightarrow PT = \sqrt{40} \text{ m}$$

30. (a) 31. (c) 32. (d)

33. (d) From statement I : No proper information is given.

From statement II : No proper information is given.

From I and II together, it is clear that there are 20 persons sitting in the row.



34. (a) On combining statement I, II and statement III, we get,

| Floors  | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---------|---|---|---|---|---|---|---|
| Persons | P | U | R | V | Q | T | S |

Hence, T lives on 2nd floor.

Sol. (35 -39)

By observing the given four statements, we can decode the logic as the first element in the given code represents the symbol according to the number of letters in the word

As per the below given symbols

- 3 - #
- 4 - \$
- 5 - @
- 6 - !
- 7 - %
- 8 - &

The second element in the given code is the number which is least of the alphabetical numbers of first and last words of the given word. The third element in the given code is the next alphabet of the last letter in the given word.

35. (b) Monkey  $\rightarrow$  !13Z

36. (d) Cabbage  $\rightarrow$  %3F

37. (c) Packer  $\rightarrow$  ! 16S

38. (a) Radarmen  $\rightarrow$  & 14O

39. (e) 'This can direct' \$19T #3O !4U

40. (b)  $4 + 5 \quad 2 \rightarrow 9 \quad 2$

$$13 - 9 \quad 3 \rightarrow 4 \quad 3$$

$$9 \times 2 \rightarrow 18$$

$$4 + 3 \rightarrow 7$$

$$\text{Hence sum of two rows} = 18 + 7 = 25$$

Sol. (41-45) :

In the illustration, first the words are arranged and then the numbers.

Step I: Alphabets are arranged in an ascending order within the word, except first and last alphabets.

Step II: The alphabetic positions of the first and last alphabets is added.

Step III: Even number is multiplied by 4 and odd numbers are multiplied by 5.

Step IV: Alphabet with the place value equal to the sum of the alphabetic positions of all numbers whereas the number denotes the perfect square of 1st digit from the left end.

Step V: Addition of the alphabetic position of alphabet and the number is written.

Step VI: Numbers are added and the square of that is written.

The final arrangement is as follows:

Input: Hard Height Handsome Hour Husband Hypertext Honest Hindi.

Step I: ar eghit admnos ou abnsu eeprtxy enos din

Step II: 19 25 20 36 22 30 24 18

Step III: 95 125 80 144 88 120 96 72

Step IV: N81 H1 H64 I1 P64 C1 O81 I49

Step V: 23 9 18 10 26 4 24 22

Step VI: 25 81 81 1 64 16 36 16

Step VI is the final output.

41. (c) 42. (b) 43. (c) 44. (b) 45. (c)

46. (a) In the statement, it is given that army should be deployed to rehabilitate the people displaced due to earthquake. It means that army can be used for purposes other than war also. So, assumption I is implicit. Assumption II is not implicit.
47. (b) Due to the words 'all' and 'immediate' course of action I does not follow. A system should be implemented to certify the quality of tiffin provided by the school, so course of action II follows.
48. (e) Only option (e) follows from the mention of "slump in home sales" and scope for "price correction".
49. (a) As forest being the essential source of life so the warning is issued for its conservation. So, only (I) may be the reason. The concern regarding the given statement but (II) is not the reason of the warning. Also, (III) contradicts the statement by stating that the forests are being managed more sustainably.
50. (a) It will reduce the problem of black marketing of commodities supplied under PDS. So, argument I is strong. Argument II is not directly related with the statement.
51. (c)  $T = 3 \text{ hrs } 55 \text{ min} \approx 4 \text{ hrs}$   
 $T_2 = 3 \text{ hrs } 2 \text{ min} \approx 3 \text{ hrs}$   
 $\therefore D_1 = 4 \times A = 4A \text{ km}$   
 $D_2 = 3(A + 30) = 3A + 90 \text{ km}$   
 According to question,  
 $3A + 90 - 4A = 60$   
 $\Rightarrow A = 30 \text{ km/hr}$
52. (d) Remaining mixture =  $80 - 20 = 60 \text{ Ltr}$   
 Milk in remaining mixture =  $\frac{60}{5} \times 4 = 48 \text{ Ltr}$   
 Water in remaining mixture =  $60 - 48 = 12 \text{ Ltr}$   
 New mixture =  $60 + 24 = 84 \text{ Ltr}$   
 Milk in new mixture =  $48 + 24 = 72 \text{ Ltr}$   
 Ratio of milk and water in new mixture =  $72:12 = 6:1$   
 Water in 28 Ltr mixture =  $\frac{28}{7} \times 1 = 4 \text{ Ltr}$   
 Hence, final quantity of water in final mixture =  $12 - 4 = 8 \text{ Ltr}$
53. (c) Time for P, Q and R = 12 months, 4 months and 3 months respectively.

$$\text{Investment Ratio} = \frac{\text{Profit Ratio}}{\text{Time Ratio}}$$

$$\begin{aligned} \text{So, P, Q and R's investment ratio} &= \frac{2}{12} : \frac{1}{4} : \frac{1}{3} \\ &= \frac{1}{6} : \frac{1}{4} : \frac{1}{3} = 2 : 3 : 4 \end{aligned}$$

According to question,

$$\begin{aligned} \frac{x}{x + 3000} &= \frac{2}{3} \\ \Rightarrow 3x &= 2x + 6000 \\ \Rightarrow x &= 6000 \end{aligned}$$

$$\text{Hence, investment made by R} = \frac{6000}{2} \times 4 = ₹ 12000$$

$$\begin{aligned} 54. (c) \quad 10B \times 30 &= 15G \times 30 \\ \Rightarrow 2B &= 3G \end{aligned}$$

$$\Rightarrow \frac{B}{G} = \frac{3}{2} \quad \dots(i)$$

According to question,

$$\begin{aligned} 20B \times 3 + 30G \times \text{days} &= 10B \times 30 \\ \Rightarrow 20 \times 3 \times 3 + 30 \times 2 \times \text{days} &= 10 \times 3 \times 30 \\ \Rightarrow 60 \times \text{days} &= 900 - 180 = 720 \end{aligned}$$

$$\Rightarrow \text{Days} = \frac{720}{60} = 12$$

$$\therefore \text{Total days to finish work} = 3 + 12 = 15 \text{ days}$$

$$\text{Hence, days in which no work was done} = 21 - 15 = 6 \text{ days.}$$

$$\begin{aligned} 55. (a) \quad \text{Area of circle} &= 616 \text{ m}^2 \\ \Rightarrow \pi r^2 &= 616 \end{aligned}$$

$$\Rightarrow r^2 = \frac{616}{22} \times 7 = 196$$

$$\Rightarrow r = \sqrt{196} = 14 \text{ m}$$

According to question,

$$r^2 = 16 \frac{1}{3} \times (b + 5)$$

$$\Rightarrow (14)^2 = \frac{49}{3} (b + 5)$$

$$\Rightarrow b + 5 = 4 \times 3 = 12$$

$$\Rightarrow b = 12 - 5 = 7 \text{ m}$$

$$\therefore l = 7 \times \frac{100}{35} = 20 \text{ m}$$

$$\text{Hence, area of rectangle} = 7 \times 20 = 140 \text{ m}^2$$

$$56. (b) \text{ According to question,}$$

$$\frac{(a + 960) \times 15 \times 6}{100} = (3a - 420) - (a + 960)$$

$$\Rightarrow \frac{(a + 960) \times 90}{100} = 2a - 1380$$

$$\Rightarrow 9a + 8640 = 20a - 13800$$

$$\Rightarrow 11a = 13800 + 8640 = 22440$$

$$\Rightarrow a = ₹ 2040$$

Again,

$$\frac{b \times 15 \times 6}{100} = (2a - 280) - b$$



$$\Rightarrow \frac{b \times 9}{10} = 2 \times 2040 - 280 - b \text{ (by putting a's value)}$$

$$\Rightarrow \frac{9b}{10} + b = 3800$$

$$\Rightarrow \frac{19b}{10} = 3800$$

$$\Rightarrow b = \frac{3800 \times 10}{19} = ₹ 2000$$

57. (d) Let invested in scheme P is ₹ x.

According to question,

$$\frac{x \times 20 \times 3}{100} - \frac{(20000 - x) \times 35 \times 2}{100} = 1600$$

$$\Rightarrow \frac{3x}{5} - \frac{20000 \times 7}{10} + \frac{7x}{10} = 1600$$

$$\Rightarrow \frac{13x}{10} = 14000 + 1600 = 15600$$

$$\Rightarrow x = 1200 \times 10 = ₹ 12000$$

∴ Amount received from scheme P

$$= 12000 + \frac{12000 \times 60}{100} = ₹ 19200$$

And, amount received from scheme Q

$$= 8000 + \frac{8000 \times 70}{100} = ₹ 13600$$

Hence, 50% of amount received from scheme P and

$$Q = (19200 + 13600) \times \frac{50}{100} = ₹ 16,400$$

58. (c) Let men in city A is 2x.

$$\text{Women in city A} = 2x \times \frac{150}{100} = 3x$$

$$\text{Men in city B} = 3 \times 2x = 6x$$

$$\text{Women in city B} = 3x + 500$$

According to question,

$$(6x + 3x + 500) = \frac{280}{100} (2x + 3x)$$

$$\Rightarrow 9x + 500 = \frac{28}{10} \times 5x$$

$$9x + 500 = 14x$$

$$\Rightarrow 5x = 500 \Rightarrow x = 100$$

$$\text{Hence, number of men in city A} = 2 \times 100 = 200$$

59. (e) From I & II:

$$A + B = C \times \frac{125}{100}$$

$$\Rightarrow \frac{A + B}{C} = \frac{5}{4}$$

$$\text{And, } \frac{D}{C} = \frac{3}{2} \times \frac{2}{2} = \frac{6}{4}$$

$$\therefore (A + B) : C : D = 5 : 4 : 6$$

$$(A + B)'s \text{ share} = \frac{15000}{15} \times 5 = 5000$$

$$A - B = 1000$$

Hence, both statements together are necessary to answer the question.

60. (d) From I:

$$l - a = 20 \text{ m}$$

So, statement I alone is not sufficient to answer.

From II:

$$l = 4x, b = 3x \text{ (let)}$$

$$r = 7x \times \frac{80}{100} = \frac{28x}{5}$$

So, statement II also alone is not sufficient to answer.

61. (e)  $z = 2x$

$$\text{And, } \frac{1}{x} + \frac{1}{y} = 3 \left( \frac{1}{y} - \frac{1}{x} \right)$$

$$\Rightarrow \frac{x + y}{xy} = \frac{3(x - y)}{xy}$$

$$\Rightarrow x + y = 3x - 3y$$

$$\Rightarrow 2x = 4y$$

$$\Rightarrow x = 2y$$

$$\Rightarrow x : z = 1 : 2 \text{ and } x : y = 2 : 1$$

$$\text{So, } x : y : z = 2 : 1 : 4$$

$$\text{QI: } 0.5 \times 1 \times 4 = 2$$

$$\text{QII: } \frac{4 \times 1}{2 \times 4} \times (2)^2 = 2$$

$$\text{Hence, QI} = \text{QII}$$

62. (c) Number (A) =  $10x + y$

$$y = 2x$$

According to question,

$$(10x + 2x) + x \times 2x = 54$$

$$\Rightarrow 12x + 2x^2 = 54$$

$$\Rightarrow x^2 + 6x - 27 = 0$$

$$(x + 9)(x - 3) = 0$$

$$\Rightarrow x = 3, -9 \text{ (Neglected)}$$

$$\therefore A = 10 \times 3 + 2 \times 3 = 36$$

$$\text{QI} = 3 \times 36 = 108$$

$$\text{QII} = 2 \times 36 + 48 = 120$$

$$\text{Hence, QI} < \text{QII}$$

63. (a)  $x^2 - \left(\frac{1}{5} + \frac{2}{3}\right)x + \frac{1}{5} \times \frac{2}{3} = 0$

$$\Rightarrow x^2 - \frac{13}{15}x + \frac{2}{15} = 0$$

$$\Rightarrow 15x^2 - 13x + 2 = 0$$

According to question,

$$\frac{(15x^2 - 13x + 2)}{2} + 2.5x^2 + 0.5x = 0$$

$$\Rightarrow 7.5x^2 - 6.5x + 1 + 2.5x^2 + 0.5x = 0$$

$$10x^2 - 7x + 1 = 0$$

Hence, product of roots =  $\frac{c}{a} = \frac{1}{10}$

64. (e) Equation formed by given roots  $\Rightarrow 15x^2 - 13x + 2 = 0$

**Sol. (65-66):**

For P,

$$2x^2 - 11x + 12 = 0$$

$$\Rightarrow (x - 4)(2x - 3) = 0$$

$$\Rightarrow x = \frac{3}{2}, 4$$

For Q,

$$5x^2 - 12x + 4 = 0$$

$$\Rightarrow (x - 2)(5x - 2) = 0$$

$$\Rightarrow x = \frac{2}{5}, 2$$

For R,

$$4x^2 - 25x + 6 = 0$$

$$\Rightarrow (4x - 1)(x - 6) = 0$$

$$\Rightarrow x = \frac{1}{4}, 6$$

65. (a) Required sum =  $\frac{3}{2} + \frac{1}{4} = \frac{7}{4} = 1\frac{3}{4}$

66. (b) Statement I:

Product of roots of equation P =  $4 \times \frac{3}{2} = 6$

Largest root of equation R = 6

$\therefore$  This statement is true.

Statement II:

Required difference =  $\frac{2}{5} - \frac{1}{4} = \frac{8-5}{20} = \frac{3}{20} \neq \frac{3}{10}$

$\therefore$  This statement is not true.

Statement III:

Ratio of product of roots of equation P & equation R

$$= \left(\frac{3}{2} \times 4\right) : \left(\frac{1}{4} \times 6\right) = 6 : \frac{3}{2} = 4 : 1$$

$\therefore$  This statement is also not true.

Hence, only statement I is true.

**Sol. (67-72):**

$$y\% = 25\%$$

$$x + 20 + 2x + x + x + 5 = (100 - 25)\%$$

$$\Rightarrow 5x = 75\% - 25\%$$

$$\Rightarrow 5x = 50\%$$

$$\Rightarrow x = 10\%$$

| Day       | Visitors %          | Number of visitors |
|-----------|---------------------|--------------------|
| Monday    | $(x + 20)\% = 30\%$ | 150                |
| Tuesday   | $2x\% = 20\%$       | 100                |
| Wednesday | $x\% = 10\%$        | 50                 |
| Thursday  | $(x + 5)\% = 15\%$  | 75                 |
| Friday    | $y\% = 25\%$        | 125                |

67. (a) Let ratio of children, teenagers and adults

$$= a : a : (a + 6)$$

According to question,

$$a + a + a + 6 = 75$$

$$\Rightarrow 3a = 69$$

$$\Rightarrow a = 23$$

Hence, sum of children and adults came to watch circus

$$\text{on Thursday} = a + (a + 6) = 23 + 23 + 6 = 52$$

68. (c) On Friday,

or,

$$M + F = 125$$

$$F - M = 75$$

$$M - F = 75$$

$$\Rightarrow F = 100, M = 25$$

$$\Rightarrow M = 100 \text{ and } F = 25$$

$$\therefore \text{Total collection on Friday} = 100 \times 20 + 25 \times 10$$

$$= 2000 + 250$$

$$= \text{` } 2250$$

or

$$100 \times 10 + 25 \times 20$$

$$= 1000 + 500$$

$$= \text{` } 1500$$

69. (d) Visitors came on Saturday =  $125 \times \frac{160}{100} = 200$

Hence, required ratio =  $75 : 200 = 3 : 8$

70. (c) 1.  $y = 2.5x$

$$\Rightarrow 25\% = 2.5 \times 10\%$$

$$\Rightarrow 25\% = 25\% (\checkmark)$$

$$2. y - x = 20$$

$$\Rightarrow 25 - 10 = 20$$

$$\Rightarrow 15 \neq 20 (\times)$$

$$3. y + 2x = 55$$

$$\Rightarrow 25 + 2 \times 10 = 55$$

$$\Rightarrow 45 \neq 55 (\times)$$

71. (c) First time female visitors on Friday =  $125 \times \frac{2}{5} \times \frac{1}{5}$

$$= 10$$

Total first time visitors on Friday =  $500 \times \frac{10}{100} = 50$   
 $\therefore$  First time male visitors on Friday =  $50 - 10 = 40$   
 Total male visitors on Friday =  $125 \times \frac{3}{5} = 75$   
 Hence, number of males who not visited circus on first time =  $75 - 40 = 35$

72. (d) Let total person visited on Saturday is x.  
 Males visited on Saturday =  $2(150 - 50) = 200$   
 Ratio of males and females on Saturday = 1 : 3  
 $\therefore$  Females visited on Saturday =  $\frac{200}{1} \times 3 = 600$   
 Hence, total persons visited the circus on Saturday =  $200 + 600 = 800$

73. (b) Total students in college  

$$N = 3 \times 968 \times \frac{50}{100} + \frac{1}{3} \times 840 \times \frac{35}{100}$$

$$= 1452 + 98$$

$$= 1550$$
 Total students in college K =  $\frac{504}{56} \times 100 = 900$   
 Hence, required ratio =  $1550 : 900 = 31 : 18$

74. (b) Total students in college L =  $\frac{408}{2} \times 5 = 1020$   
 Total students in college K =  $\frac{504}{56} \times 100 = 900$   
 Hence, required percentage  

$$= \frac{(1020 - 900)}{900} \times 100 = \frac{120}{9}$$

$$= 13\% \text{ (approx)}$$

75. (c)  $P \rightarrow 6\%, 12\%, 18\%, 24\%, 30\%$   
 $P = 24\%$   
 Hence, the number of students in course Q in college  

$$L = \frac{408}{24} \times 76 = 1292$$

76. (d) Total students in college O =  $3 \times 968 \times \frac{50}{100} = 1452$   
 $\therefore$  Students in course P in college O =  $1452 \times \frac{1}{4} = 363$   
 And, students in course Q in college J =  $968 \times \frac{50}{100} = 484$

Hence, required average =  $\frac{363 + 484}{2} = \frac{847}{2}$   

$$= 423.5 \approx 424$$

77. (b) Students in course Q in college L  

$$= 4 \times (968 - 840) + 78$$

$$= 206$$
 $\therefore$  Total students in college L =  $408 + 206 = 614$   
 Hence, required sum =  $\frac{504}{56} \times 100 + 614$   

$$= 900 + 614$$

$$= 1514$$

|      | Gym Q |   |    |                  | Gym R    |   |  |  |
|------|-------|---|----|------------------|----------|---|--|--|
|      |       |   |    |                  |          |   |  |  |
|      | 20    |   |    |                  | 36       |   |  |  |
|      | M     | F |    |                  | M        | F |  |  |
|      | x     |   |    |                  | 4x (Let) |   |  |  |
| I.   | 17    | 3 | 24 | 12 ( $\sqrt{}$ ) |          |   |  |  |
| II.  | 16    | 4 | 20 | 16 ( $\sqrt{}$ ) |          |   |  |  |
| III. | 15    | 5 | 16 | 20 ( $\sqrt{}$ ) |          |   |  |  |
| IV.  | 14    | 6 | 12 | 24 (x)           |          |   |  |  |

Hence, only (2), (3) and (4) are possible numbers.

79. (c) Total members in gym S, T and U in 2020 =  $57 \times 3 = 171$   
 $\therefore$  Members in gym U in 2020 =  $171 - 32 + 61 = 78$   
 Males in gym U =  $\frac{78}{3} \times 2 = 52$   
 Females in gym U =  $78 - 52 = 26$   
 Males in gym S =  $\frac{32}{8} \times 5 = 20$   
 Females in gym S =  $32 - 20 = 12$   
 Total male members of gym S and U =  $52 + 20 = 72$   
 Total female members of gym S and U =  $26 + 12 = 38$   
 Hence, required percentage  

$$= \frac{(72 - 38)}{38} \times 100 = \frac{34}{38} \times 100$$

$$= 89.47\% \approx 89\%$$

80. (e) Total members in gym U in 2020 =  $(48 - 20) = 28$   
 So,  $M + F = 28$   
 and,  $(M - F) = 4$   
 $\therefore$   $M = 16, 12$  and  $F = 12, 16$   
 So, we cannot determined the exact male members in gym U.

81. (d) Total members in gym R in 2015 and 2020  

$$= 36 + 12 = 48$$

$$\therefore \text{Females in gym R in 2015 and 2020} = \frac{48}{8} \times 5 = 30$$

$$\text{Hence, required revenue} = 30 \times 20 = \text{₹ } 600$$

82. (c) Females in gym P in 2020 = Total members in gym Q in 2015  
= 20

$$\therefore \text{Males in gym P in 2020} = 80 - 20 = 60$$

$$\text{Females in gym P in 2015} = 100 - 20 = 80$$

$$\therefore \text{Males in gym P in 2015} = 120 - 80 = 40$$

**Sol. (83-87) :**

| Year  | Company A | Company B | Company C |
|-------|-----------|-----------|-----------|
| 2016  | 116       | 62        | 55        |
| 2017  | 80        | 100       | 100       |
| 2018  | 60        | 50        | 100       |
| Total | 256       | 212       | 255       |

83. (b) Required difference =  $256 - 212 = 44$

84. (c) Required ratio =  $55:100 = 11:20$

85. (c) Required Percentage =  $\frac{(60-50)}{50} \times 100 = 20\%$

86. (a) Required average =  $\frac{116+80+60}{3} = \frac{256}{3} = 85.33 \approx 85$

87. (d) Required ratio =  $(62 + 55) : (80 + 100)$   
=  $117 : 180$   
=  $13 : 20$

88. (c) Pattern of the series –  
 $256 + 40 \times 1.2 = 304$   
 $304 + 40 \times 1.5 = 364$   
 $364 + 40 \times 1.8 = 436$   
 $436 + 40 \times 2.1 = 520$   
 $520 + 40 \times 2.4 = 616$

89. (a) Pattern of the series –  
 $512 + 11 \times 5 = 567$   
 $567 - 13 \times 5 = 502$   
 $502 + 17 \times 5 = 587$   
 $587 - 19 \times 5 = 492$   
 $492 + 23 \times 5 = 607$

90. (c) Pattern of the series –  
 $124 \times 0.5 + 2 = 64$   
 $64 \times 1.5 + 4 = 100$   
 $100 \times 2.5 + 6 = 256$   
 $256 \times 3.5 + 8 = 904$   
 $904 \times 4.5 + 10 = 4078$

91. (a) Let number of products in mobile shop = x  
From A,

$$\therefore \frac{750 \times x + 550 + 290}{x} = 750 + 70$$

$$\Rightarrow 750x + 840 = 820x$$

$$\Rightarrow 70x = 840 \Rightarrow x = 12$$

This is satisfied

From B,

$$\frac{1200 \times x + 550 + 290}{x} = 1200 + 70$$

$$\Rightarrow 70x = 840 \Rightarrow x = 12$$

This is not satisfied.

From C,

$$\frac{510x + 840}{x} = 510 + 70$$

$$\Rightarrow 70x = 840 \Rightarrow x = 12$$

This is also not satisfied.

Hence, only option (a) is correct.

92. (d) Let total quantity of vessel P =  $11x$   
Quantity of juice in vessel P =  $9x$   
Quantity of water in vessel P =  $2x$

$$\text{Quantity of juice in vessel Q} = 9x \times \frac{100}{120} = 7.5x$$

$$\therefore \text{Quantity of water in vessel Q} = 7.5x \times \frac{2}{5} = 3x$$

$$\therefore \text{Total quantity of vessel Q} = 7.5x + 3x = 10.5x$$

According to question,

$$11x - 10.5x = 4$$

$$\Rightarrow 0.5x = 4 \Rightarrow x = 8$$

Average quantity of juice in vessel P and Q

$$= \frac{9x + 7.5x}{2}$$

$$= \frac{16.5 \times 8}{2} = 66 \text{ ltr}$$

$$\text{Quantity of water in vessel Q} = 3 \times 8 = 24 \text{ ltr}$$

$$\text{Hence, required ratio} = 66:24 = 11:4$$

93. (b)

| Item  | C.P.             | S.P.             | M.P.               |
|-------|------------------|------------------|--------------------|
| A     | $7200 - 10x$     | $7840 - 10x$     | $10,000 - 13x$     |
| B     | $10x$            | $10x + 420$      | $13x$              |
| Total | $\text{₹ } 7200$ | $\text{₹ } 8260$ | $\text{₹ } 10,000$ |

$$(10,000 - 13x) \times \frac{80}{100} = 7840 - 10x$$

$$\Rightarrow 80,000 - 104x = 78400 - 100x$$

$$\Rightarrow 4x = 1600$$

$$\Rightarrow x = 400$$

Hence, selling price of item B =  $10x + 420$

$$= 10 \times 400 + 420 = \text{₹ } 4420$$

94. (e) Solve using option (d)

Let radius of cone (r) is 4r.

$$\therefore \text{Radius of cylinder } (r_2) = 4r \times \frac{150}{100} = 6r$$

$$\therefore \text{Slant height of cone } (l) = 4r \times \frac{125}{100} = 5r$$

- Weight (h) =  $\sqrt{l^2 - r^2}$   
 $= \sqrt{(5r)^2 - (4r)^2} = \sqrt{9r^2}$   
 $\Rightarrow h = 3r$   
 According to question,  
 $\Rightarrow |\pi r_1 l - 2\pi r_2 h| = 64\pi$   
 $\Rightarrow |\pi \times 20r^2 - \pi \times 36r^2| = 64\pi$   
 $\Rightarrow |5\pi r^2 - 9\pi r^2| = 16\pi$   
 $\Rightarrow 4r^2 = 16$   
 $\Rightarrow r = 2$   
 $\therefore r_2 = 6 \times 2 = 12$   
 $h = 3 \times 2 = 6$   
 So, volume of cylinder =  $\pi r^2 h$   
 $= \pi \times 12 \times 12 \times 6$   
 $= 864\pi$   
 Hence, none of the option is correct.
95. (b) Ratio = 1 : 2 : 4  
 Capacity =  $7 \times 4x = 28x$   
 Empty rate of all three pipes =  $x + 2x + 4x = 7x$   
 $\therefore A = \frac{28x}{7x} = 4$  hours
96. (a)  $\frac{84}{100} \times 120 + \frac{28}{100} \times 225 = ? + \frac{16}{100} \times 100$   
 $\Rightarrow 100 + 63 = ? + 16$   
 $\Rightarrow ? = 147$
97. (e)  $\frac{2856}{102} \times 15 = ? + 220$   
 $\Rightarrow 28 \times 15 = ? + 220$   
 $\Rightarrow ? = 420 - 220 = 200$
98. (c)  $\frac{90}{100} \times 320 + \left\{ \frac{682}{\sqrt{961}} \right\} \times 16 = ? \times 8$   
 $\Rightarrow 288 + 352 = ? \times 8$   
 $\Rightarrow ? = \frac{640}{8} = 80$
99. (a)  $\frac{70}{100} \times 480 + \frac{6}{7} \times 490 + \frac{3}{7} \times 273 = ?$   
 $\Rightarrow 336 + 420 + 117 = ?$   
 $\Rightarrow ? = 873$
100. (b)  $\frac{1273}{\sqrt{361}} \times 15 + \left\{ \frac{6360}{\sqrt{2809}} \right\} \div \sqrt{64} = ? \times 12$   
 $\Rightarrow \frac{1273}{19} \times 15 + \left\{ \frac{6360}{53} \right\} \div 8 = ? \times 12$   
 $\Rightarrow 1005 + 15 = ? \times 12$   
 $\Rightarrow ? = \frac{1020}{12} = 85$

101. (a) Refer to, "The Budget sounded the bugle for fostering rural entrepreneurship for those depending on agriculture and traditional industries by announcing the setting up of 80 Livelihood Business Incubators and 20 Technology Business Incubators this fiscal with the aim to develop 75,000 skilled entrepreneurs in agro-rural industry sector."  
 It is evident that the government wants start-up founders to expand beyond metropolitan areas in order to ensure that the agriculture sector receives the attention it deserves. It will emphasize that the country's rural economy will also grow. Option (a) is our choice here because it explains this fact, and the other options can be discarded because they don't follow the information in the passage.  
 This makes Option (a) the correct choice among the given options.
102. (d) It has been described in the passage that the government has announced a number of steps in order to boost the startup economy of the country. The government has announced tax exemptions and also more networking in order to help the startups develop more and more. Among the given options, we can easily pick up Option (d) whereas Option (a) is correct in the first part but for the second part, we can say that no question has been put forward by the government for the startup sector of the country. Other options can be eliminated since they do not at all follow from the passage.  
 This makes Option (d) the correct choice among the given options.
103. (d) **Statement I is not correct for the fact that the new channel has been proposed to be set up and run by the startup companies themselves so that they can utilize the platform properly.** Refer to, "A TV channel exclusively .....surprise to many." ( third paragraph)  
 Statement II is also not correct because there is no such reference in the passage.  
 Statement III is correct because from the above quoted lines it can be understood that the new channel will try to match the startup founders with the VCs so that they can raise capital and also plans the taxes so that there is tax saving by these small companies.  
 Hence Option (d) is the correct choice among the given options.
104. (c) **Among the available choices, Option (c) explains the author's reaction, while the others can be skipped because they don't follow the passage.**  
 Hence Option (c) is the correct choice among the given options.
105. (b) According to Statement I, start-ups that receive funding from angel investors are subject to a tax known as "Angel Tax." Therefore, it is correct that this tax will only apply to businesses that raise capital from this source.



Statement II is incorrect because it cannot be said that the country's Income Tax Act does not contain such a provision.

Statement III is incorrect because, it applies to all businesses, not just those that have chosen to close their doors.

Because of this, **Option (b)** is the best option out of all the ones offered.

106. (e) *The passage claims that because most of our actions are influenced by the behaviour of those around us, human behaviour is contagious in nature. Our brains are designed to foster relationships with others. As a result, we often copy the actions, preferences, and other behaviours of others. As a result, of the available possibilities, option (e) is the best one.*

107. (b) *According to the passage, the behavioural science principle of social influence made a popular American infomercial for a home shopping channel change by making customers believe that the operators are waiting for them at the other end of the line. This simple change led to its sales skyrocketing. So, this makes (b) the right choice among the given options.*

108. (d) *According to the passage, the use of canned laughter causes an audience to laugh longer and more often when a humorous material is presented. Also, the canned laughter is most effective for poor jokes as well. This makes option (d) an apt choice.*

109. (b) *According to the passage, the experiment was called as "People Power" because it gives people the power to make a difference at no cost. So, this makes (b) an apt choice among the given options.*

110. (c) *Among the given options, 'Escalating' is the right choice since the given word implies that the behavioral change adopted by a home shopping channel led to its rising sales.*

111. (a) *Among the given options, 'transmissible is the right choice since the given word implies that the human behavior is contagious in nature. Their consumption and their habits are influenced by their natural surroundings.*

112. (b) *Among the given options, 'wise' is the right choice. Bold and audacious  
Are the synonyms of foolhardy. We need antonym.  
Since the behavioral change adopted by a home shopping channel led to skyrocketing sales but it was rather an uncalculated move.*

113. (d) The fragment most suitable as the first one is D.  
Pairs:

|         |         |         |
|---------|---------|---------|
| D and A | A and C | C and B |
|---------|---------|---------|

The correct sequence is **D-A-C-B**. Hence, option (d) is correct.

114. (b) The ideal first fragment is C clearly.  
**Pairs**

|         |         |         |
|---------|---------|---------|
| C and B | B and A | A and D |
|---------|---------|---------|

The correct sequence is **C-B-A-D**. Hence, option (b) is correct.

115. (a) The most suitable first fragment is A here.  
Pairs:

|         |         |         |
|---------|---------|---------|
| A and C | C and B | B and D |
|---------|---------|---------|

The correct sequence is **A-C-B-D**. Hence, option (a) is correct.

116. (e) The original sequence is correct and there is no need to rearrange it.

117. (a) The first fragment is clearly **D** as no other fragment provides a sensible starting point.

**Pairs:**

|         |         |         |
|---------|---------|---------|
| D and A | A and C | C and B |
|---------|---------|---------|

The correct sequence is **D-A-C-B**.

|          |                    |                                                                   |                                                                                                        |
|----------|--------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 118. (b) | Fragment I         | The supreme court of India disapproved                            | Here, the preposition 'of' must follow the verb 'disapprove' to make it correct.                       |
|          | Fragment II and IV | <b>No error</b>                                                   |                                                                                                        |
|          | Fragment III       | at the cost of taxpayers and let them continue for years together | <b>Error of parallelism.</b> Here 'let' must be replaced by 'letting' to make it grammatically correct |

|          |                    |              |                                                                                            |
|----------|--------------------|--------------|--------------------------------------------------------------------------------------------|
| 119. (b) | Fragment I and III | No error     |                                                                                            |
|          | Fragment II        | <b>Error</b> | the sentence talks about a past event, the verb 'make' has to be in its past form; 'made'. |
|          | Fragment IV        | Error        | Here the phrase 'therapy of patients' must be changed to 'therapy to patients'             |

|          |                        |              |                                                                                                                                                                                                                    |
|----------|------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 120. (c) | Fragment I, III and IV | No error     |                                                                                                                                                                                                                    |
|          | <b>Fragment II</b>     | <b>Error</b> | The main subject of the sentence 'A group of ....' is in singular number and the verb following it has to be in agreement. 'Has' must be used here in place of 'have' to make it a grammatically correct sentence. |

121. (e) All fragments are correct, no errors. Option (e) is hence the correct answer.

122. (c) Offered, Containment: Should replace each other in order to make the sentence grammatically and contextually correct. Hence, option (c) is the right answer choice.

123. (d) Testing, Protocol: Should replace each other in order to make the sentence grammatically and contextually correct. Hence, option (d) is the right answer choice.

124. (e) The sentence is correct. Hence, option (e) is the right answer choice.

125. (c) Motivated, Development: Should replace each other in order to make the sentence grammatically and contextually correct. Hence, option (c) is the right answer choice.

126. (a)

127. (d) The original sentence is erroneous.

**Reason:** The word '**comprehension**' must be followed the preposition '**of**' instead of '**off**' in this context.

**The sentence after replacement becomes:**

Economic policies formulated by the IAS officers are generally above the power of comprehension of most of the ministers.

128. (e) The original sentence is absolutely correct and hence the bold part needs no replacement.

129. (b) The original sentence is erroneous.

**Reason:** The phrase 'cave off' is incorrect.

The correct phrasal verb is '**cave in**' which means '**capitulate or submit under pressure**'.

**The sentence after replacement becomes:**

Non-performing assets have led to a seizure of new lending and the caving in of credit culture.

130. (b)

**Sol (131-135) :**

In this article, the authors appear to applaud the government's move to provide benefits to women working in the organized sector, while at the same time criticizing the government's neglect of other women in the unorganized sector. Sentence C clearly sets the tone of the passage and should be the first statement.

Finding the second movement of a sequence is a rather difficult task. At first glance, the G sentence appears to come next, but if you choose it, the B sentence

cannot be placed elsewhere, and placing the B sentence elsewhere makes the sentence context absurd. Also, the demonstrative pronoun "This" at the beginning of sentence B goes well with the noun "step" at the end of sentence C. So proposition B follows.

Keywords that connect B to C:

'this' (B) – 'step' (C)

G follows the sequence as it welcomes and describes the idea discussed in the first sentence.

Keywords/phrases that connect G to C:

'such a benefit' (G) – 'enhancement of paid maternity leave for women' (C)

E clearly seems to follow the sequence as it brings a contrast to the point being discussed.

Keywords/phrases that connect E to G:

'the amended law' (E) – 'an amendment' (G)

F immediately follows as it supports the argument made in sentence E.

Keywords/phrases that connect F to E:

'For many poor millions in the unorganised sector' (F) – 'a small subset of women in the workforce' (E)

D must follow the sequence made so far as it criticizes the current benefit scheme for women in the unorganised sector while quoting government's apathy towards the women in unorganised sector.

Keywords/phrases that connect D to F:

'this meagre benefit' – 'a small conditional cash benefit of Rs. 6,000'

Now, the only sentence that is left is sentence A and it will obviously take the last position in the sequence. Hence, the correct sequence of sentences will be C-B-G-E-F-D-A.

131. (d) The second sentence is clearly B.

132. (c) The fourth sentence is clearly F.

Option (c) is hence the correct answer.

133. (a) The first sentence is clearly C

134. (e) The last but one (second from the last) sentence is clearly D.

135. (b) The third sentence is clearly G.

136. (c) In option (c), 'aspirations' absolutely fits the context as well grammar. Aspiration is different from 'need' in a way that "need" refers to the necessities of an individual whereas 'aspiration' is more about luxurious desires of an individual.

137. (d) Both the words of option (d) suit the context as well as fulfill the grammar rules.
138. (a) It is very obvious that terrorist would do something negative. Thus both the words should be negative in nature.  
Option (a) – Both the words absolutely fit the blanks.
139. (c) A strong spirit always motivates others, thus the second blank must have words like motivate, inspire, etc.  
Hence **option (c)** is correct
140. (c) Dealt and coloured do not make sense in the first blank and are incorrect. Thus, options B and D can be eliminated.  
Out of options (a) and (c), (a) is the only option where both words fit both the blanks respectively  
Hence, option (c) is correct.
141. (d) The Nobel Prize in Chemistry 2022 was awarded to Carolyn R. Bertozzi, Morten Meldal, K. Barry Sharpless. The Nobel Prize in Chemistry 2022 was awarded to Carolyn R. Bertozzi, Morten Meldal, and K. Barry Sharpless “for the development of click chemistry and bio orthogonal chemistry,” which involve simple, quick chemical reactions that can occur within living organisms without disrupting normal biological functions.
142. (d) As announced in the Monetary Policy Statement 2022-23 dated December 07, 2022, the Bank Rate is revised upwards by 35 basis points from 6.15 per cent to 6.50 per cent with immediate effect.
143. (b) “The existing FTP 2015-20 which is valid up to September 30, 2022 is extended up to March 31, 2023,”. FTP provides guidelines for enhancing exports to push economic growth and create jobs. It was first extended on March 31, 2020 for one year due to the coronavirus outbreak and the lockdown.
144. (a) India was ranked 40<sup>th</sup> position out of 132 in the Global Innovation Index (GII) 2022 rankings released by World Intellectual Property Organization (WIPO). Switzerland is the most innovative economy in the world in 2022 - for the 12<sup>th</sup> year in a row - followed by the United States, Sweden, the United Kingdom and the Netherlands.
145. (a) Bomb Cyclone is related to USA. Bomb cyclone is actually used by meteorologists to indicate a mid-latitude cyclone that intensifies rapidly. It is a massive winter storm hammering the coast, bringing strong winds, flooding, ice and snow. It is a combination of rapidly declining pressure and extreme cold.
146. (b) China is the largest Producer of Cement. China produces the most cement globally by a large margin, at an estimated 2.5 billion metric tons in 2021. China’s cement production share equates to over half of the world’s cement. India was the world’s second-largest cement producer, with production amounting to a distant 330 million metric tons in 2021.
147. (d) Sberbank is a state-owned banking and financial services company of Russia headquartered in Moscow. As of 2014 it was the largest bank in Russia and Eastern Europe, and the third largest in Europe, ranked 60th in the world and first in central and Eastern Europe in The Banker’s Top 1000 World Banks ranking. In the world ranking of public companies Forbes “Global 2000” Sberbank takes 51st place.
148. (b) First time in history, India has crossed USD 400 Billion billion in merchandise exports. India has, for the first time, met the government’s annual export target since 2014. The country crossed the crucial threshold of \$400-billion annual merchandise export target.
149. (c) India’s central bank, The Reserve Bank of India (RBI) in a discussion paper has said the non-banking financial services will be regulated in a four layered structure. There will be four tiers of NBFCs – Base Layer (NBFC-BL), Middle Layer (NBFC-ML), Top layer.
150. (b) The Holcim Group, legally known as Holcim Limited, is a Swiss multinational company that manufactures building materials. It has a presence in around 70 countries, and employs around 72,000 employees.
151. (a) Capital, Asset Quality and Capital-To-Risk Weighted Assets Ratio (CRAR), NPA ratio, Tier I Leverage Ratio, will be the key areas for monitoring in the revised framework.
152. (a) Banking Ombudsman is a quasi judicial authority created in 2006, and the authority was created pursuant to a decision made by the Government of India to enable resolution of complaints of customers.
153. (d) Richest self made women according to Hurun Global Rich List 2022 is Wu Yajun. Wu Yajun is a Chinese billionaire businesswoman who was at one time the world’s richest self-made woman. She is the co-founder, chairwoman, and former CEO of Longfor Properties.
154. (d) Kumbhalgarh is also known as the Great Wall of India is a Mewar fortress on the westerly range of Aravalli Hills, just about 48 km from Rajsamand city in the Rajsamand district of the Rajasthan state in western India. It is located about 84 km from Udaipur. It is a World Heritage Site included in Hill Forts of Rajasthan. It was built during the 15th century by Rana Kumbha.
155. (b) The cheetah was declared extinct from India in 1952. The Cheetahs that would be released are from Namibia and have been brought under an MoU signed earlier this year. The introduction of Cheetah in India is being done under Project Cheetah, the world’s first inter-continental large wild carnivore translocation project.
156. (c) The SDR (Special Drawing Right) is an international reserve asset, created by the IMF in 1969 to supplement its member countries’ official reserves.

157. (c) Indian plans to expand its regional satellite navigation system NavIC (Navigation in Indian Constellation), to increase its use in the civilian sector and ships, aircraft travelling far from the country's borders. The constellations' first satellite (IRNSS-1A) was launched on 1<sup>st</sup> July 2013 and the eighth satellite IRNSS-1I was launched in April 2018. With the seventh launch of the constellation's satellite (IRNSS-1G), IRNSS was renamed NavIC by India's Prime Minister in 2016.
158. (a) The Global Liveability Index has risen sharply in 2022. Scores of Education, healthcare, and environment have improved, following the ease of restrictions post Covid-19. Austrian Capital, Vienna, topped the Global Liveability Report, 2022, with a 99.1 rating. It replaced Auckland, which topped in 2021.
159. (d) EU KLEMS is an industry level, growth and productivity research project. EU KLEMS stands for EU level analysis of capital (K), labour (L), energy (E), materials (M) and service (S) inputs.
160. (a) The 12 nationalised banks include Punjab National Bank (PNB), Bank of Baroda (BoB), Bank of India (BoI), Central Bank of India, Canara Bank, Union Bank of India, Indian Overseas Bank (IOB), Punjab, and Sind Bank, Indian Bank, UCO Bank, Bank of Maharashtra, and State Bank of India (SBI).
161. (a) The Indian Super League, officially known as the Hero Indian Super League for sponsorship reasons, is an Indian professional league for men's association football clubs.
162. (b) Vishing is a cyber crime that uses the phone to steal personal confidential information from victims. Often referred to as voice phishing, cyber criminals use savvy social engineering tactics to convince victims to act, giving up private information and access to bank accounts.
163. (a) The Board of Trustees of the PM CARES Fund has also nominated following to the Advisory Board of the Trust are Shri Rajiv Mehrishi, Smt. Sudha Murthy and Shri Anand Shah.
164. (d) India's external debt, at US\$ 620.7 billion as at end-March 2022, grew by 8.2 per cent over US\$ 573.7 billion as at end-March 2021. External debt of the country continues to be dominated by the long-term borrowings, but long term borrowings reduces in 2022-23 as stated by Government of India.
165. (b) Eliud Kipchoge, Kenyan marathon runner won Olympic 2020. Previously, he won the Gold Medal in 2016 Olympics. Eliud Kipchoge EGH is a Kenyan long-distance runner who competes in the marathon and formerly specialized at the 5000 metre distance.
166. (c) Glasnost was taken to mean increased openness and transparency in government institutions and activities in the Soviet Union (USSR). Glasnost reflected a commitment of the Gorbachev administration to allowing Soviet citizens to discuss publicly the problems of their system and potential solutions.
167. (c) India imposed the windfall profit tax, from July, joining a nations that tax super normal profits of energy companies. The government has maintained that the levy was introduced in view of the windfall gains made by the domestic crude producers and refiners due to high global crude and product prices.
168. (a) The government has listed for sale real estate assets of state-run telecom firms MTNL and BSNL at a reserve price of Rs 970 Crore.
169. (b) The 2019 World Population Data Sheet indicates that the world population reached 7.7 billion in 2019. By 2050, India will surpass China as the most populous country in the world, with an estimated 1.67 billion people.
170. (a) Meghalaya won the best performer award in the 3rd edition of ranking of states on support to the start-up ecosystem which was released by Piyush Goyal, Minister of Commerce and Industry in a felicitation ceremony in New Delhi.
171. (a) As per the States, Madhya Pradesh has topped the chart in the category of best-performing states in the Swachh Survekshan Awards 2022.
172. (b) NARCL (National Asset Reconstruction Limited.) is a government entity, has been incorporated on 7th July 2021 with majority stake held by Public Sector Banks and balance by Private Banks with Canara Bank being the Sponsor Bank.
173. (d) The survey aims at capturing subjective assessments on price movements and inflation, based on their individual consumption baskets, across 19 cities, viz., Ahmedabad, Bengaluru, Bhopal, Bhubaneswar, Chandigarh, Chennai, Delhi, Guwahati, Hyderabad, Jaipur, Jammu, Kolkata, Lucknow, Mumbai, Nagpur, Patna, Raipur, Ranchi.
174. (b) The Reserve Bank has approved the appointment of its former deputy governor R Gandhi as non-executive part time chairman of Yes Bank for three years.
175. (e) RBI, APR include cost of funds, credit cost and operating cost, processing fee, verification charges, maintenance charges, and exclude penalty charges, late payment charges.
176. (b) The Indian Central Board of Indirect Taxes and Customs (CBIC) has refuted reports of a cut to the annual sales threshold for clearing e-invoices to ₹ 5 per annum for 1 January 2023. It had last been decreased to ₹ 10 annual sales.
177. (c) Hurun India finds 1,103 individuals with INR 1,000 crore wealth, up by 96, an increase of 62% over the last five years. With INR 10,94,400 crore, Gautam Adani (60) overtakes Mukesh Ambani (65), to bag the richest Indian title.

178. (a) The maximum amount of debt (fund based or non-fund based facilities) eligible for guarantee cover under the scheme is Rs. 10 crore per borrower, irrespective of the amount of debt facilities extended to the borrower by MI(s).
179. (b) The index represents the single discount rate that would produce the same present value as calculated by discounting a standardized set of liabilities using the PDC.
180. (b) India has signed MOU with world Bank to raise Fund for Pradhan Mantri Matsya Sampada Yojana. Pradhan Mantri Matsya Sampada Yojana is a scheme to bring about Blue Revolution through sustainable and responsible development of fisheries sector in India” with highest ever investment of Rs. 20050 crores in fisheries sector comprising of Central share of Rs. 9407 crore, State share of Rs 4880 crore and Beneficiaries contribution of Rs. 5763 crore. PMMSY will be implemented over a period of 5 years from FY 2020-21 to FY 2024-25 in all States/Union Territories.
181. (d) The Education 4.0 India report is the result of a collaboration between the World Economic Forum, the United Nations Children’s Education Fund (UNICEF) and YuWaah (Generation Unlimited India). It tracks the progress and findings of the Education 4.0 India initiative, which focuses on how Fourth Industrial Revolution technologies can enhance learning and reduce inequalities in access to education among children in India.
182. (c) NSE Clearing has empanelled 15 clearing banks namely Axis Bank Ltd., Bank of India Ltd., Canara Bank Ltd., Citibank N.A., The Hongkong & Shanghai Banking Corporation Ltd., ICICI Bank Ltd., HDFC Bank Ltd., IDBI Bank Ltd., IndusInd Bank Ltd., JPMorgan Chase Bank, Kotak Mahindra Bank Ltd., Standard Chartered Bank, Union Bank of India, State Bank of India and Yes Bank.
183. (c) PM Kisan Maandhan Yojana that provides an assured monthly pension of Rs. 3000/- to all the small and marginal farmers (who own cultivable land up to 2 hectares) after the age of 60 years. This scheme was introduced with an aim to secure the lives of small and marginal farmers in India.
184. (a) In order to improve complaint redressal in finance companies, the Reserve Bank of India (RBI) will introduce the Internal Ombudsman Scheme (IOS) for NBFCs having a higher customer interface.
185. (b) RBI lifts curbs on M&M Finance for loan recovery through outsourcing. On September 22, 2022, the Reserve Bank of India had directed Mahindra & Mahindra Financial Services to immediately cease carrying out any recovery or repossession activity through outsourcing arrangements.
186. a) Under Pradhan Mantri Garib Kalyan Yojana (PMGKY), the limit for collateral-free loans for women’s SHGs was doubled from Rs.10 lakh to Rs. 20 lakh.
187. (c) The Global Innovation Index is an annual ranking of countries by their capacity for, and success in, innovation, published by the World Intellectual Property Organization. It was started in 2007 by INSEAD and World Business, a British magazine. It reveals the most innovative economies in the world, ranking the innovation performance of around 132 economies.
188. (c) The National Asset Reconstruction Company Ltd. (NARCL), set up to take over large bad loans of more than 500 crore from banks. The SARFAESI Act, 2002 provides the legal basis for the setting up of ARCs in India. Setting up of NARCL, the proposed bad bank for taking over stressed assets of lenders, was announced in the Budget for 2021-22.
189. (c) 16 companies are in the NBFC-UL list are: LIC Housing Finance, Bajaj Finance, Mahindra & Mahindra Financial Services, Shriram Transport, Tata Sons, L&T Finance, Indiabulls Housing Finance, Piramal Capital & Housing Finance, Cholamandalam Investment and Finance Co., Shanghvi Finance Pvt. Ltd, Muthoot Finance, PNB Housing Finance, Tata Capital Financial Services, Aditya Birla Finance, HDB Financial Services and Bajaj Housing Finance.
190. (b) The EXIM Letter of Credit policy can reduce a bank’s risks on confirmations and negotiations of irrevocable letters of credit issued by overseas financial institutions for the financing of U.S. exports.



## Reasoning Ability

**DIRECTIONS (Qs. 1-5):** 7 persons Y, X, W, V, U, T and S are sitting on a row facing north not necessarily in the same order. T sits three places away from W. Only one person sits between Y and T. Y sits neither adjacent to W nor at the end. Number of persons to the left of S is same as number of persons to the right of X. X sits to the right of T and to the immediate left of V.

- What is the position of U with respect of S?  
(a) Immediate left (b) Third to the right  
(c) Second to the left (d) Second to the right  
(e) Immediate right
- Four of the following five are same in some way, find the odd one.  
(a) UY (b) VW (c) SX (d) WT  
(e) YV
- Which of the following is true?  
(a) X sits to the right of W.  
(b) Three persons sit between U and V.  
(c) T sits in the middle of the row.  
(d) S sits second to the left of W.  
(e) All are true
- Who sits four places away from the person who sits adjacent to W?  
(a) U (b) Y (c) S (d) T  
(e) No one
- How many persons sit to the right of S and to the left of V?  
(a) Two (b) One (c) No one (d) Three  
(e) Four
- What is the difference between the sum of the digits of first four digits of the given number and sum of the last four digits in the number "76234580".  
(a) 5 (b) 1 (c) 7 (d) 0  
(e) 2

**DIRECTIONS (Qs. 7-9):** In the question below are given three statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

## 7. Statement:

- Only brick is rock.
- Only a few brick is marble.
- All marble is graphite.

## Conclusion:

- Some rock being graphite is a possibility.
  - Some brick is rock.
- (a) Both conclusion I and II follows.  
(b) Neither conclusion I nor II follows.

- (c) Either conclusion I or II or follows.  
(d) Only conclusion II follows.  
(e) Only conclusion I follows.

## 8.

## Statement:

- Only a few Cap is Hat.  
Only a few Hat is Crown.  
All Crown are Throne.

## Conclusion:

- Some Hat is Throne is a possibility.
  - No Throne is Hat.
- (a) Either I or II follows. (b) Neither I nor II follows.  
(c) Only II follows. (d) Both I and II follows.  
(e) Only I follows.

## 9.

## Statements:

- Some Lily are roses.  
All roses are flowers.  
Some flowers are Bouquet.

## Conclusions:

- Some Bouquet are roses.
  - No Bouquet is rose.
- (a) Only conclusion I follow.  
(b) Either conclusion I or conclusion II follows.  
(c) Only conclusion II follows.  
(d) Conclusion I and II both follow.  
(e) Neither conclusion I nor conclusion II follows.

**DIRECTIONS (Qs. 10-12):** These questions are based on the following information.

There are eight people in a family L, J, Z, B, C, D, F and G consists of 3 generations. Four of them are females. C and Z are the daughter and son of J respectively and both are married. D is the sister of G whose father is B. L and F are of 3<sup>rd</sup> generation and L is the son-in-law of D. J is the brother-in-law of G.

- How is J related to Z?  
(a) Mother (b) Daughter-in-law  
(c) Son-in-law (d) Father  
(e) Son
- Who among the following is the son-in-law of B?  
(a) F (b) Z (c) J (d) G  
(e) Cannot be determined
- Who among the following belongs to the first generation?  
(a) D (b) Z (c) J (d) G  
(e) B

**DIRECTIONS (Qs. 13-17):** Study the following information carefully to answer the given questions.

7 friends living one above another P, Q, R, S, T, U and V not necessarily in the same order. U is living at third floor from either of the ends. P is living just above to U. Three persons are living between P and S. Number of persons living above S is

two more than the number of persons below V. Q is living above R, which is not living below S.

13. How many persons are living between R and P?  
(a) None (b) Two  
(c) More than three (d) One  
(e) Three
14. Who is living three places below U?  
(a) V (b) Q (c) S (d) T  
(e) R
15. Number of persons living below Q is same as the number of persons living above \_\_\_\_\_.  
(a) P (b) R (c) S (d) T  
(e) None of these
16. Which of the following is false?  
A. T is not living at the bottom.  
B. V is living immediately above R.  
C. More than four persons are living between Q and S.  
(a) Only B and C (b) Only A and C  
(c) Only C (d) Only A  
(e) Only A and B
17. If all the persons are arranged to place in the alphabetical order from top to bottom, then how many persons remain unchanged?  
(a) One (b) Two (c) Three (d) None  
(e) More than three
18. How many such pairs of letters are there in the word "FREQUENT" which has as many letters between them in the word (in both forward and backward directions, as they have between them in the English alphabetical series)?  
(a) One (b) Two (c) Three (d) None  
(e) More than three

**DIRECTIONS (Qs. 19-21):** In the following question assuming the given statements to be true, find which of the conclusion among given conclusions is/are definitely true and then give your answer accordingly.

**19. Statements:**

$V = A : A \neq E; E < Q$

**Conclusions:**

- |                             |                              |
|-----------------------------|------------------------------|
| I. $V = E$                  | II. $V < E$                  |
| (a) Only I is true.         | (b) Only II is true.         |
| (c) Either I or II is true. | (d) Neither I or II is true. |
| (e) Both I and II are true. |                              |

**20. Statements:**

$E < Z > A = D; C < B = F > D$

**Conclusions:**

- |                              |                             |
|------------------------------|-----------------------------|
| I. $Z > D$                   | II. $D > C$                 |
| (a) Only II is true.         | (b) Either I or II is true. |
| (c) Neither I or II is true. | (d) Both I or II is true.   |
| (e) Only I is true.          |                             |

**21. Statements:**

$I > C > Z \cdot R; \cdot W \neq E \neq R$

**Conclusions:**

- |                             |                               |
|-----------------------------|-------------------------------|
| I. $C \cdot W$              | II. $B > Z$                   |
| (a) Only II is True.        | (b) Neither I nor II is True. |
| (c) Both I and II are True. | (d) Either I or II is True.   |
| (e) Only I is True.         |                               |

22. Study the following information carefully to answer the given questions:

Juhi went 30 kilometers to the coast from my house, then turned left and walked 10 kilometers. She then turned west and walked 25 kilometers and finally turning left covered 10 kilometers. How far was he from his house?

- (a) 20 kilometers east (b) 40 kilometers
- (c) 30 kilometers (d) 5 kilometers east
- (e) 10 kilometers east

**DIRECTIONS (Qs. 23-27):** Study the following information carefully to answer the given questions.

Eight boxes A, B, C, D, W, X, Y and Z are placed in a four-story almirah such that ground rack is numbered as 1, the rack immediately above rack 1 is numbered as 2 and so on. Each of the rack has two portions in it as portion P and portion Q. Portion Q is to the east of portion P. Portion P of rack 2 is immediately above the portion P of rack 1 and immediately below the portion P of rack 3 and so on. In the same way, portion Q of rack 2 is immediately above the portion Q of rack 1 and immediately below the portion Q of rack 3 and so on.

D is placed immediately above the portion in which A is placed in same portion but not in portion Q. There are two racks between the rack in which A and Z placed. There is only one rack between the rack on which Z and B placed. Y who is placed on an even numbered rack places above the rack in which C placed. C is placed below the rack in which X is placed. C and X is placed in the same portion but not with Z.

23. In which portion and on which rack does W placed?

- (a) Portion Q, rack 3 (b) Portion P, rack 4
- (c) Portion P, rack 3 (d) Portion Q, rack 1
- (e) Portion P, rack 2

24. Who is placed in the same rack with Z?

- (a) Y (b) X (c) B (d) C
- (e) A

25. Four of the following five are same in some way, find the odd one.

- (a) A (b) D
- (c) C (d) X
- (e) W

26. If W and B interchange their position, then who among the following is placed immediately below B?

- (a) Y (b) A (c) D (d) X
- (e) C

27. Which of the following is true?

- (a) Z is placed in portion Q.
- (b) B and X is placed in different portion.
- (c) Y is placed on rack 2.
- (d) D is placed below the rack in which W is placed.
- (e) All are true.

**DIRECTIONS (Qs. 28-32):** Study the following arrangement carefully and answer the questions given below:

O U \* J B ^ \$ K # C \* C V B S R E & M P @ Q U ! G

28. How many such symbols are there in the above series which is immediately followed by a consonant and immediately preceded by vowel?

- (a) One (b) Four
- (c) None of these (d) Three
- (e) Two

29. If we remove all the symbols from the above series then which among the following alphabet is the 9<sup>th</sup> from the right end?  
(a) S (b) E  
(c) B (d) None of these  
(e) R
30. Which among the following elements is 5<sup>th</sup> to the left of 7<sup>th</sup> from the right end of the series?  
(a) None of these (b) U  
(c) B (d) &  
(e) @
31. How many such vowels are in the series given each of which is immediately followed by symbol and immediately preceded by a letter?  
(a) Two (b) One (c) Three (d) Four  
(e) Five
32. If all the symbols are replaced with a digit 5 then how many such 5's are there in the new series each of which is followed by a consonant?  
(a) Five (b) Seven (c) Four (d) Eight  
(e) Two

**DIRECTIONS (Qs. 33-35):** Read the following information carefully and answer the questions that follow:

There are six friends in a class Z, Y, X, W, V and U who score different marks in an exam. All are sitting in a row according to their marks. Y scores the second highest mark. Marks of U is less than W. Z scores fewer marks than X and V. U is the third highest score in the group and has scored 46 marks. W is the highest scorer in the group.

33. Who score second highest in the group?  
(a) X (b) Y (c) V (d) U  
(e) Z
34. Who score second lowest marks in the group?  
(a) V (b) Y (c) X (d) W  
(e) Can't be determined.
35. If sum of U and Y mark is 106, then what is possible marks of W.  
(a) 50 (b) 62 (c) 48 (d) 47  
(e) 46

### Numerical Ability

36. If the numerator of a certain fraction is increased by 40%, while the denominator is increased by 100%, then the ratio of the numerator and denominator becomes 42 : 75, what will be the actual fraction?  
(a) 5/7 (b) 4/5 (c) 7/10 (d) 8/11  
(e) 5/8
37. A certain work was completed by A in 7 days, B in 14 days, C in 21 day. If A and C did work for 3 days and then left then B will finishes rest work in how many days?  
(a) 4.5 (b) 4 (c) 5.5 (d) 3  
(e) 3.5
- DIRECTIONS (Qs. 38-42):** In the given questions, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer.
38. I.  $5a^2 + 26a + 33 = 0$  II.  $b^2 + 18b + 65 = 0$   
(a)  $a > b$  (b)  $a < b$  (c)  $a \cdot b$  (d)  $a \nless b$   
(e)  $a = b$  or relation between  $a$  and  $b$  can not established.
39. I.  $12x^2 - 46x + 40 = 0$  II.  $6y^2 - 30y + 24 = 0$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \cdot y$  (d)  $x \nless y$   
(e)  $x = y$  or relation between  $x$  and  $y$  can be established.
40. I.  $a^2 + 30a + 81 = 0$  II.  $b^2 + 26b + 48 = 0$   
(a)  $a < b$   
(b) No relation in  $a$  and  $b$  or  $a = b$   
(c)  $a > b$   
(d)  $a \nless b$   
(e)  $a \cdot b$
41. I.  $x^2 + 7x - 60 = 0$  II.  $y^2 - 11y + 30 = 0$   
(a)  $x \nless y$  (b)  $x > y$   
(c)  $y \cdot x$  (d)  $x < y$   
(e) No relation in  $x$  and  $y$  or  $x = y$
42. I.  $2x^2 + 26x + 84 = 0$  II.  $y^2 + 21y + 104 = 0$   
(a)  $x \cdot y$  (b)  $x > y$   
(c)  $y \nless x$  (d)  $x \cdot y$   
(e)  $x = y$  or the relation between  $x$  and  $y$  can't be established.
43. What approximate value should come in the place of question mark (?) in the following question?  
 $[(14.98 + 8.95) \div 0.99] \times 3.98 = ?^4 + 10.98$   
(a) 11 (b) 8 (c) 2 (d) 3  
(e) 5
44. What approximate value should come in place of the question mark (?) in the following question?  
 $(221.22 + 72.90) \div 5.99 = 3.99\% \text{ of } 199.99 + 19.99 + ?$   
(a) 31 (b) 41 (c) 23 (d) 11  
(e) 51
45. What approximate value should come in place of the question mark (?) in the following question?  
 $219.89 + 2.99^3 + 199.96 = 2.99 \times ? + 209.98$   
(a) 90 (b) 100 (c) 120 (d) 79  
(e) 110
46. What will come in the place of the question mark '?' in the following question?  
 $26\% \text{ of } 300 + 30 \times 17 - \sqrt{961} \times 4 = ?$   
(a) 472 (b) 473 (c) 471 (d) 464  
(e) None of these
47. What will come in the place of the question mark '?' in the following question?  
 $40\% \text{ of } 70 = 25 \times 4 - ? + 6 \times 4$   
(a) 47 (b) 37 (c) 96 (d) 10  
(e) None of these
48. What will come in the place of the question mark '?' in the following question?  
 $131 \times 3 + 63 = 70 \div 7 + ?\% \text{ of } 21 + 5$   
(a) 1400 (b) 2000 (c) 2100 (d) 2150  
(e) None of these
49. What will come in the place of the question mark '?' in the following question?  
 $17 \times \sqrt{16} + 60\% \text{ of } 250 = 25\% \text{ of } 40 + ? \times 13$   
(a) 17 (b) 11 (c) 19 (d) 16  
(e) None of these

50. What will come in the place of the question mark '?' in the following question?  
 $22 \times 23 - 40\% \text{ of } 800 = \sqrt{86} \times ?$   
 (a) 33 (b) 34 (c) 38 (d) 31  
 (e) None of these
51. What will come in the place of the question mark '?' in the following question?  
 $? \% \text{ of } 400 \times (3/4) + 300 = 66.66\% \text{ of } 900$   
 (a) 50 (b) 101 (c) 260 (d) 180  
 (e) 70
52. What will come in the place of the question mark '?' in the following question?  
 $25\% \text{ of } 84 \div 20\% \text{ of } 140 = 2 + 11\% \text{ of } 500 + ?$   
 (a) -8 (b) -6 (c) -4 (d) 8  
 (e) 4
53. What will come in the place of the question mark '?' in the following question?  
 $\sqrt{121} + 81 \div 9 = 144 \div 36 + (?)^2$   
 (a) 8 (b) 6 (c) 4 (d) 3  
 (e) None of these
54. What will come in the place of the question mark '?' in the following question?  
 $33 \times \sqrt{25} - 30\% \text{ of } 200 = 25\% \text{ of } 1600 - ? \times 59$   
 (a) 7 (b) 8 (c) 9 (d) 5  
 (e) None of these
55. What approximate value will come in the place of the question mark '?' in the following question?  
 $? \% \text{ of } 550 \times (2/5) + \sqrt{625} = 28.97\% \text{ of } 630 + 10$   
 (a) 100 (b) 260 (c) 77 (d) 180  
 (e) 59
56. What will come in the place of the question mark '?' in the following question?  
 $13^2 + 171 \div 19 \times 2 = ? + 15$   
 (a) 270 (b) 137 (c) 190 (d) 172  
 (e) None of these
57. What will come in the place of the question mark '?' in the following question?  
 $25\% \text{ of } 28 - 20\% \text{ of } 30 + 2^2 = 5 \times ?$   
 (a) 4 (b) 0 (c) 3 (d) 2  
 (e) 1
58. Find the total number of the Bat and Gloves sold by T & T company in 2020?  
 (a) 700 (b) 695 (c) 705 (d) 585  
 (e) 735
59. If each company has targeted to increase their sale of gloves by at least 25% in 2020, but it was found that I, J and K have scale up their target only by 20%, while M has scale up by 30%. The sale of Gloves by M in 2020 is approximately what percent to the sale of I, J and K in 2020?  
 (a) 83% (b) 85% (c) 87% (d) 77%  
 (e) 80%
60. If the sale for Bat increased by 50% in 2020, and sale for Ball is increased by 40% in 2020 for company M, then what will be the new ratio of sale of Bat and Ball in 2020?  
 (a) 5 : 17 (b) 15 : 7 (c) 17 : 11 (d) 7 : 15  
 (e) 8 : 13
61. If in 2020, the total sales of bat for all the shops are increased by 120%, what will be the number of bats sold by company M in 2019 and 2020, if it was considered that sales of other company are same as 2019 except M and L. M and L sell an equal number of bat in 2020?  
 (a) 1045 (b) 1095 (c) 1535 (d) 1120  
 (e) 995
62. What will be the total ratio of the Bat and the Gloves sold by all of the company in 2019?  
 (a) 65 : 31 (b) 64 : 31 (c) 67 : 31 (d) 68 : 31  
 (e) 69 : 31
63. A boat having a speed of 12 kmph covering a distance of 36 km, in upstream, and a distance of 30 km in downstream, if the time taken by the boat to cover the distance in up and down is in ratio of 2 : 1. Find the speed of the stream.  
 (a) 8 kmph (b) 6 kmph (c) 5 kmph (d) 4 kmph  
 (e) 3 kmph
64. If the height of the triangle is 12 cm, and the area of the triangle is 168 sq. cm. The perimeter of the rectangle is 42 cm. If it were given that the base of a triangle is equal to the breadth of a rectangle. Find length of rectangle.  
 (a) 15 cm (b) 16 cm (c) 7 cm (d) 10 cm  
 (e) 15 cm
65. If the ratio of income of 2 friends is 14 : 10, while it was found that the ratio of expenditure is 10 : 6. If both the friends save ` 2,000 in each month. Find sum of monthly income of both the friends.  
 (a) ` 5000 (b) ` 5500 (c) ` 12000 (d) ` 9500  
 (e) ` 7000
66. The average weight of 40 students in a class is 15 kg. The number of girls in a class are 40% less than the number of boys in a class. The average weight of girls in a class is 12 kg. Find the difference between the average weight of boys and weight of girls in a class.  
 (a) 6.4 kg (b) 4.8 kg (c) 6.2 kg (d) 5.95 kg  
 (e) 3.75 kg
67. There are 3 friends named Sunil, Tanisq and Depank. It was found that the average age of Sunil and Tanisq is 22 years. While the ratio of Sunil and Depank's ages is 5 : 7 and the sum of all the friends together is 72 years. What will be the present age of Tanisq?  
 (a) 24 years (b) 18 years (c) 12 years (d) 20 years  
 (e) 14 years

**DIRECTIONS (Qs. 58-62):** In the below given table, the total number of Bat, Ball and Gloves sold by different Companies in 2019 is given. On the basis of the given data determine the answered of the questions asked.

| Companies | Bat | Ball | Gloves |
|-----------|-----|------|--------|
| I         | 250 | 75   | 75     |
| J         | 325 | 50   | 100    |
| K         | 375 | 50   | 150    |
| L         | 400 | 100  | 200    |
| M         | 250 | 125  | 250    |

In 2020, a new company T & T joins, and it was found that the sale of Bat for the company is 20% more than the sale of Bat by L in 2019, while the sale of Gloves by the company is 30% less than the sale of Gloves by K in 2019.



68. A sum of money gives an interest of  $\frac{2}{5}$  of itself in T years, when it is given in the rate of 20%. Find amount after (T + 4) years.  
(a) 2.2P (b) 2.25P (c) 2.35P (d) 2.5P (e) 2.6P
69. Monthly income of Ram was ₹ 18,000, if he spent 25% on entertainment, 12% on his travelling and save x% in bank account. After the calculation, he found that he was left with ₹ 2160. Find the sum of amount which he saves in his bank.  
(a) ₹ 8840 (b) ₹ 9180 (c) ₹ 10520 (d) ₹ 12140 (e) ₹ 14720
70. A train having a certain length of x m covers the two different platforms having lengths of 280 m and 360 m in 36 sec and 40 sec, respectively. Find speed of train (in kmph).  
(a) 80kmph (b) 78kmph (c) 75kmph (d) 72kmph (e) 70kmph

### English Language

**DIRECTIONS (Qs. 71-75):** Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in a proper sequence to form a meaningful paragraph. Then answer the questions given below.

- (A) Detritus that the worm deems unworthy may become a meal for other tiny beach denizens, such as crabs, shrimp and clams.
- (B) This is where the worm's "fat innkeeper" nickname comes from.
- (C) From the front end of its burrow, the worm coughs up a net of mucus to catch tiny seaside plankton, bacteria and other detritus that happen to pass by.
- (D) It does this by spraying a jet of water out of its butt.
- (E) When the worm sucks this net back into its mouth, it holds onto choice morsels and tosses the rest away through the back end of its burrow.
- (F) In fact, it's common for the worm's burrow to host various opportunistic animals looking for a free bed and meal.
71. Which of the following should be the SIXTH statement after rearrangement?  
(a) A (b) B (c) C (d) F (e) E
72. Which of the following should be the FIFTH statement after rearrangement?  
(a) D (b) B (c) C (d) F (e) E
73. Which of the following should be the FOURTH statement after rearrangement?  
(a) A (b) B (c) C (d) F (e) D
74. Which of the following should be the THIRD statement after rearrangement?  
(a) A (b) B (c) C (d) D (e) F
75. Which of the following should be the SECOND statement after rearrangement?  
(a) A (b) B (c) C (d) F (e) E

**DIRECTIONS (Qs. 76-80):** In each question below, four words printed in bold type are given. These are numbered (a), (b), (c) and (d). One of these words printed in bold might either be wrongly spelt or inappropriate in the context of the sentence. Find out the word that is inappropriate or wrongly spelt, if any. The number of the word is your answer. If the words printed in bold are correctly spelt and appropriate in the context of the sentence then mark (e), i.e. 'All Correct', as your answer.

76. Ramesh had an **aversion** (a) / to alcohol and **would** (b) / avoid going to **partyes** (c) / with his **friends**. (d) / All correct (e)  
(a) aversion (b) would (c) partyes (d) friends (e) All correct
77. Ramesh **spiled** (a) / juice all over Raj's **new** (b) / clothes and did not even **care** (c) / to **apologise**. (d) / All correct (e)  
(a) spiled (b) new (c) care (d) apologise (e) All correct
78. Daisy **loved** (a) / children and so she would **distrebut** (b) / sweets in an **orphanage** (c) / on her **birthday**. (d) / All correct (e)  
(a) loved (b) distrebut (c) orphanage (d) birthday (e) All correct
79. All the **competitors** (a) / **completed** (b) / the **race**, (c) / with just one **expection**. (d) / All correct (e)  
(a) competitors (b) completed (c) race (d) expection (e) All Correct
80. Lucy was **working** (a) / overtime **because** (b) / she had to **prepare** (c) / for an important **meating**. (d) / All correct (e)  
(a) working (b) because (c) meating (d) prepare (e) All correct

**DIRECTIONS (Qs. 81-88):** Read the following passage carefully and answer the questions given below. Some words are printed in bold in order to help you locate them while answering some of the questions.

The catastrophic monsoon floods in Kerala and parts of Karnataka have revived the debate on whether political expediency trumped science. Seven years ago, the Western Ghats Ecology Expert Panel issued recommendations for the preservation of the fragile western peninsular region. Madhav Gadgil, who chaired the Union Environment Ministry's WGEEP, has said the recent havoc in Kerala is a consequence of short-sighted policymaking, and warned that Goa may also be in the line of nature's fury. The State governments that are mainly responsible for the Western Ghats — Kerala, Karnataka, Tamil Nadu, Goa and Maharashtra — must go back to the drawing table with the reports of both the Gadgil Committee and the Kasturirangan Committee, which was set up to examine the WGEEP report. The task before them is to initiate correctives to environmental policy decisions. This is not going to be easy, given the need to balance human development pressures with stronger protection of the Western Ghats ecology. The issue of allowing extractive industries such as quarrying and mining to operate is arguably the most contentious. A way out could be to create the regulatory framework that was proposed by the Gadgil panel, in the form of an apex Western Ghats Ecology Authority and the State-level units, under the Environment



(Protection) Act, and to adopt the zoning system that it proposed. This can keep incompatible activities out of the Ecologically Sensitive Zones (ESZs).

At issue in the Western Ghats — spread over 1,29,037 sq km according to the WGEEP estimate and 1,64,280 sq km as per the Kasturirangan panel — is the calculation of what constitutes the sensitive core and what activities can be carried out there. The entire system is globally acknowledged as a biodiversity hotspot. But population estimates for the sensitive zones vary greatly, based on interpretations of the ESZs. In Kerala, for instance, one expert assessment says 39 lakh households are in the ESZs outlined by the WGEEP, but the figure drops sharply to four lakh households for a smaller area of zones identified by the Kasturirangan panel. The goal has to be sustainable development for the Ghats as a whole. The role of big hydroelectric dams, built during an era of rising power demand and deficits, must now be considered afresh and proposals for new ones dropped. Other low-impact forms of green energy led by solar power are available. A moratorium on quarrying and mining in the identified sensitive zones, in Kerala and also other States, is necessary to assess their environmental impact. Kerala's Finance Minister, Thomas Isaac, has acknowledged the need to review decisions affecting the environment, in the wake of the floods. Public consultation on the expert reports that includes people's representatives will find greater resonance now, and help chart a sustainable path ahead.

81. Which among the following has been attributed by the experts as a reason of the recent floods in Kerala and Karnataka?
- The political decision making strategy has always taken the upper hand as compared to the real interests of the environment.
  - Rainwater always spills in these two states since there is an improper drainage infrastructure in place.
  - The states are unable to handle any issue, no matter how minor it may be, because they have no idea how to handle any type of natural calamity.
  - The states should be entrusted with the responsibility of protection of environment in the areas within their jurisdiction.
  - None of the above
82. Which of the following should the flood-affected states do to stop this from happening again, according to the passage?
- The states need to invest more money in avoiding natural disasters there.
  - In order for the federal government to anticipate the possibility of any natural disaster, the states should establish appropriate warning mechanisms.
  - The states should plan properly so that they can implement the recommendations of the expert panels regarding the preservation of the Western Ghats Area.
  - The states should not take any action at this time; instead, they should concentrate solely on the idea of putting everything into disaster management operations.
  - None of the above
83. Which among the following is the main issue pointed out in the passage in the implementation of the expert panel reports in various states?
- The reports of the expert panel show no proper framework for controlling the Ecologically Sensitive Zone in the Western Ghat Area.
  - The Western Ghat region doesn't have any problems, but the main issue is that governments don't have enough money.
  - Because they will use up all of the groundwater in the area, the reservoirs in the area's immediate vicinity will spell disaster.
  - Since policymakers don't care about the environment until it affects their voter base, the area will flood..
  - The balance between development and preservation should be there in order to develop the area properly.
84. Which among the following should be the objective of all concerned regarding the development of the Western Ghats Area?
- The development plan should be well supported by money and also manpower by all the states.
  - The Western Ghats Area should be preserved properly so that there is sustainable development of the area.
  - Since the development plan will help gain an advantage throughout the process, it must be correctly drafted from the beginning.
  - The states should take the development of the Western Ghats region seriously so that the area is actually preserved.
  - Because the states are not in charge of developing the Western Ghats Area, this area should not be taken for granted.
85. Which among the following should be the course of action of the government in order to ensure that the Western Ghats Area is preserved properly?
- There should be utilization of various clean sources of energy such as the solar power in the area
  - There should not be any restriction in mining activities as well as quarrying activities in the area
  - There should not be new construction of hydroelectric dams in the area from now onwards
- Both I and III
  - Only II
  - Both I and II
  - Only I
  - All I, II and III
86. Which among the following is true regarding the regulatory framework recommended by the expert panel regarding the conservation of the Western Ghats Area?
- There should be one central authority along with state-wise authorities so that the coordination is proper for sustainable development of the area.
  - There must be a central regulator that does not authorize states to avoid any kind of dispute between them.
  - There should be a decentralized regulatory authority at the state level, accompanied by the heads of ministries.
  - There should be only one regional authority to avoid confusion about the responsibilities of different authorities.
  - None of the above
87. Which among the following is the view of the Finance Minister of Kerala regarding the efforts towards development of the Western Ghats Area?

- (a) It should not be carried out since any development activity in region would definitely put a lot of people in problem.
- (b) It should not be stopped because the central government has already sanctioned it and the funds have also been released.
- (c) Kerala should get special assistance from the central government in the present Finance Commission in view of the ongoing flood situation.
- (d) The state government should be the sole deciding authority regarding the amount of compensation to be given.
- (e) The state should engage public in the process of consultation regarding the blueprint of the development of Western Ghats Area
88. Which of the following sentences has a similar meaning to the word “*resonance*” used in this sentence?
- (a) Delightful (b) Blissful
- (c) Consonance (d) Credence
- (e) None of the above

**DIRECTIONS (Qs. 89-95):** Read the sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark (e). (Ignore errors of punctuation, if any)

89. If I will have an even faster (a)/ computer than I have today, (b)/ I could come up with really (c)/ interesting questions to ask it.(d)/ No error (e)
90. One of my colleagues (a)/ who wanted to help me with(b)/ my projects have been transferred (c)/to some other department (d)/ No error(e)
91. The type of qualities you acquire (a)/ depend upon your company(b)/ and so you associate yourselves with (c)/ simple and good natured people.(d)/ No error(e)
92. Everybody among the traders (a)/ were enjoying dance and music (b)/ when the manager of the (c)/event was shot dead.(d)/ No error(e)
93. There are many insurance (a) / disputes nowadays because of (b) / most people do not fully (c) / understand the terms and conditions of their policies (d) / No error (e)
94. The stubborn child (a)/ started crying and laid on (b)/ the ground after his (c)/ mother refused to get him a chocolate. (d) / No error(e)
95. Our company is yet starting (a) / offering this facility to (b) / our customers as we are (c) / awaiting approval from the Board. (d) / No error (e)

**DIRECTIONS (Qs. 96-100):** In the following passage, some of the words have been left out, each of which is indicated by a letter. Find the suitable word from the options given against each letter and fill up the blanks with appropriate words to make the paragraph meaningful.

This year, the world’s largest democracy, India, and the biggest country by\_\_ (96)\_\_, Russia, are celebrating the 70th anniversary of establishment of diplomatic relations between them. Russia continues to be among India’s major politico-diplomatic and defence partner nations. While India has \_\_ (97) \_\_ separate strategic partnership pacts with more than two dozen countries, the Indian and Russian governments in December 2010 \_\_ (98) \_\_ their bilateral ‘Strategic Partnership’ to what they termed a “Special and Privileged Strategic Partnership.”

The New Delhi-based \_\_ (99) \_\_ ‘Foundation for National Security Research’, which did a comparative assessment of India’s strategic partnerships — meaning, ‘political-diplomatic, defence and economic cooperation’ (during the 10-year period prior to November 2011), had said, “Russia emerges as the most important strategic partner of India (followed by the U.S., France, the U.K., Germany and Japan in that order).” The November 2011 report had found that Russia had provided strong political and diplomatic support to India and helped enormously in building India’s defence capability. However, it warned that the “economic content of the (India-Russia) partnership is extremely weak,” and recommended that “urgent and \_\_ (100) \_\_ steps need to be taken to improve economic relations if this (India-Russia) partnership is to be sustained and made durable.”

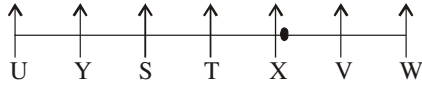
96. (a) Population (b) Density  
(c) Area (d) Democracy  
(e) Economy
97. (a) Inked (b) Considered  
(c) Contemplated (d) Refuted  
(e) Revoked
98. (a) Called (b) Elevated  
(c) Refreshed (d) Nullified  
(e) Revived
99. (a) NGO (b) Startup  
(c) Personnel (d) Think tank  
(e) Avenue.
100. (a) Various (b) Precarious  
(c) Vigorous (d) Minuscule  
(e) Exhilarating

### ANSWER KEY

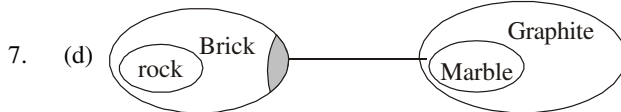
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|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1  | (c) | 11 | (c) | 21 | (b) | 31 | (c) | 41 | (c) | 51 | (b) | 61 | (c) | 71 | (b) | 81 | (d) | 91  | (b) |
| 2  | (d) | 12 | (e) | 22 | (d) | 32 | (b) | 42 | (b) | 52 | (a) | 62 | (b) | 72 | (d) | 82 | (c) | 92  | (b) |
| 3  | (c) | 13 | (b) | 23 | (c) | 33 | (b) | 43 | (d) | 53 | (c) | 63 | (e) | 73 | (a) | 83 | (e) | 93  | (b) |
| 4  | (a) | 14 | (c) | 24 | (a) | 34 | (e) | 44 | (c) | 54 | (d) | 64 | (c) | 74 | (d) | 84 | (b) | 94  | (b) |
| 5  | (a) | 15 | (d) | 25 | (b) | 35 | (b) | 45 | (d) | 55 | (c) | 65 | (c) | 75 | (e) | 85 | (a) | 95  | (a) |
| 6  | (b) | 16 | (b) | 26 | (c) | 36 | (b) | 46 | (d) | 56 | (d) | 66 | (b) | 76 | (c) | 86 | (a) | 96  | (c) |
| 7  | (d) | 17 | (d) | 27 | (d) | 37 | (d) | 47 | (c) | 57 | (e) | 67 | (a) | 77 | (a) | 87 | (e) | 97  | (a) |
| 8  | (b) | 18 | (b) | 28 | (d) | 38 | (a) | 48 | (c) | 58 | (d) | 68 | (a) | 78 | (b) | 88 | (c) | 98  | (b) |
| 9  | (b) | 19 | (c) | 29 | (c) | 39 | (e) | 49 | (d) | 59 | (a) | 69 | (b) | 79 | (d) | 89 | (a) | 99  | (d) |
| 10 | (d) | 20 | (e) | 30 | (c) | 40 | (b) | 50 | (d) | 60 | (b) | 70 | (d) | 80 | (c) | 90 | (c) | 100 | (c) |

# ANSWERS & EXPLANATIONS

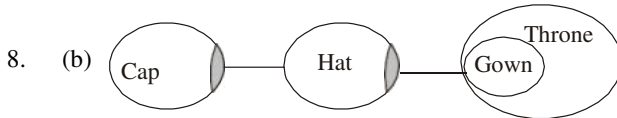
Sol. (1-5):



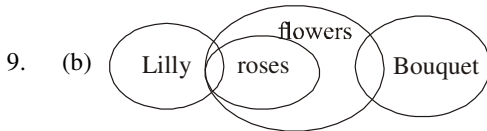
1. (c) Second to the left.
2. (d) Every second persons sits on the right side of first person except WT.
3. (c) Only (c) option is correct.
4. (a) U sits four palces away from the person who sit adjacent to W.
5. (a) Two persons i.e. T and X sits between S and V.
6. (b) Sum of the first four digits =  $7 + 6 + 2 + 3 = 18$   
Sum of the last four digits =  $4 + 5 + 8 + 0 = 17$   
Required difference =  $18 - 17 = 1$



Only II conclusion follows.

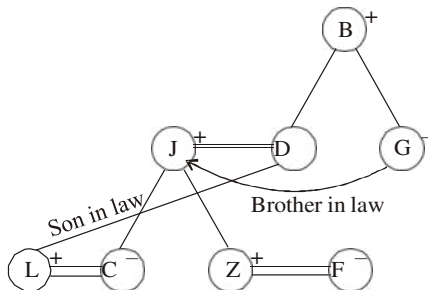


Neither I nor II follows.



Either I or II follows.

Sol. (10-12):



Sol. (13-17):

7 → Q

6 → P

5 → U

4 → V

3 → R

2 → S

1 → T

13. (b) Two persons are living between R and P i.e. U and V.
14. (c) S is living three places below U.
15. (d) T as Q lives at the top and T lives at the bottom of building.
16. (b) Only A and C is false as T is living at the bottom and 4- persons are living between Q and S.
17. (d) Arrangement of persons from top to bottom in alphabetical order.

7 → P

6 → Q

5 → R

4 → S

3 → T

2 → U

1 → V

None

18. (b)
- |     |      |     |      |      |     |      |      |
|-----|------|-----|------|------|-----|------|------|
| (6) | (18) | (5) | (17) | (21) | (5) | (14) | (20) |
| F   | R    | E   | Q    | U    | E   | N    | T    |
- 

Two i.e. R-U, QN.

19. (c) **Statement:**

V  
||  
 $A \leq E < Q$

**Conclusion:**

I.  $V = E$  (False)

II.  $V < E$  (False)

Either I or II is true.

$E < Z > A$   
||

||

21. (b) Statement:

$$I > C > Z \geq R \geq E \geq W < B$$

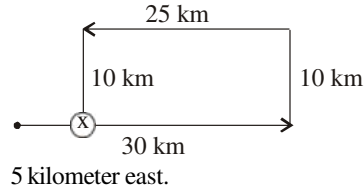
Conclusions:

I.  $C \geq W$  (False)

II.  $B > Z$  (False)

Neither I nor II.

22. (d)



Sol. (23-27):

|   | P | Q |
|---|---|---|
| 4 | Z | Y |
| 3 | W | X |
| 2 | D | B |
| 1 | A | C |

Racks

23. (c) Portion P and rack 3.

24. (a) Y is placed in same rack.

25. (b) D is odd as (A, C), (W, X) are placed in same rack of different portion.

26. (c) D

27. (d) D is placed below the rack in which W is placed.

Sol. (28-32):

O U \* J B ^ \$ K # C \* C V B S R E & M P @ Q U ! G

28. (d) "U \* J", "E & M", "U ! G"

29. (c) 30. (c) 31. (c)

32. (b) O U 5 J B 5 5 K 5 C 5 C V B S R E 5 M P 5 Q U 5 G  
Seven

Sol. (33-35):

Highest — W  
— Y  
46 — U  
— either X or V  
— either X or V  
Lowest — Z

33. (b) Y score 2<sup>nd</sup> highest.

34. (e) Can't be determined.

35. (b)  $u + y = 106 \Rightarrow y = 106 - 46 = 60$   
 $w = 62$  according to option.

36. (b) Let the numerator be  $100x$ .  
Then the denominator be  $100y$ .  
According to question,

$$\frac{\left(100x + 100x + \frac{40}{100}\right)}{100y} = \frac{49}{50} \Rightarrow \frac{140x}{200y} = \frac{14}{25}$$

$$\Rightarrow \frac{x}{y} = \frac{4}{5}$$

$$\begin{array}{rcl} A & \longrightarrow & 7 \\ B & \longrightarrow & 14 \\ C & \longrightarrow & 21 \end{array} \quad \begin{array}{c} 6 \\ 3 \\ 2 \end{array} \quad \begin{array}{c} 42 \\ 42 \\ 42 \end{array}$$

A + B + C 1 day work 11

A + B + C 3 day work 33 (Q11 × 3 = 33)

Remaining work =  $42 - 33 = 9$

Remaining work done by B in =  $\frac{9}{3} = 3$  days

$$\begin{aligned} 38. (a) (I) 5a^2 + 26a + 33 &= 0 \\ \Rightarrow 5a^2 + 15a + 11a + 33 &= 0 \\ \Rightarrow 5a(a + 3) + 11(a + 3) &= 0 \end{aligned}$$

$$\Rightarrow (5a + 11)(a + 3) = 0 \Rightarrow a = -3, -\frac{11}{5}$$

$$\begin{aligned} (II) b^2 + 18b + 65 &= 0 \Rightarrow b^2 + 13b + 5b + 65 = 0 \\ \Rightarrow b(b + 13) + 5(b + 13) &= 0 \Rightarrow (b + 13)(b + 5) = 0 \\ \Rightarrow b = -13, -5 \Rightarrow a > b \end{aligned}$$

$$\begin{aligned} 39. (e) (I) 12x^2 - 46x + 40 &= 0 \\ \text{Dividing both the sides by 2,} \\ 6x^2 - 23x + 20 &= 0 \\ \Rightarrow 6x^2 - 15x - 8x + 20 &= 0 \Rightarrow 3x(2x - 5) - 4(2x - 5) = 0 \\ \Rightarrow (3x - 4)(2x - 5) &= 0 \Rightarrow x = \frac{4}{3}, \frac{5}{2} \end{aligned}$$

$$\begin{aligned} (II) 6y^2 - 30y + 24 &= 0 \\ \text{Dividing both the sides by 6,} \\ y^2 - 5y + 4 &= 0 \\ \Rightarrow y^2 - 4y - y + 4 &= 0 \Rightarrow y(y - 4) - 1(y - 4) = 0 \\ \Rightarrow (y - 1)(y - 4) &= 0 \Rightarrow y = 1, 4 \end{aligned}$$

No relation between  $x$  and  $y$  can be established.

$$\begin{aligned} 40. (b) (I) a^2 + 30a + 81 &= 0 \\ \Rightarrow a^2 + 27a + 3a + 81 &= 0 \Rightarrow a(a + 27) + 3(a + 27) = 0 \\ \Rightarrow a = -27, -3 \\ (II) b^2 + 26b + 48 &= 0 \\ \Rightarrow b^2 + 24b + 2b + 48 &= 0 \Rightarrow b(b + 24) + 2(b + 24) = 0 \\ \Rightarrow (b + 2)(b + 24) &= 0 \Rightarrow b = -2, -24 \end{aligned}$$

No relation can be made.

$$\begin{aligned} 41. (c) (I) x^2 + 7x - 60 &= 0 \\ \Rightarrow x^2 + 12x - 5x - 60 &= 0 \Rightarrow x(x + 12) - 5(x + 12) = 0 \\ \Rightarrow (x - 5)(x + 12) &= 0 \Rightarrow x = 5, -12 \\ (II) y^2 - 11y + 30 &= 0 \\ \Rightarrow y^2 - 6y - 5y + 30 &= 0 \Rightarrow (y - 6)(y - 5) = 0 \\ \Rightarrow y = 6, 5 \Rightarrow y \geq x \end{aligned}$$

$$\begin{aligned} 42. (b) (I) 2x^2 + 26x + 84 &= 0 \\ \text{Dividing by "2" by b.t.s.} \\ x^2 + 13x + 42 &= 0 \\ \Rightarrow x^2 + 7x + 6x + 42 &= 0 \Rightarrow x(x + 7) + 6(x + 7) = 0 \\ \Rightarrow (x + 6)(x + 7) &= 0 \Rightarrow x = -6, -7 \\ (II) y^2 + 21y + 104 &= 4 \\ \Rightarrow y^2 + 13y + 8y + 104 &= 0 \Rightarrow y(y + 13) + 8(y + 13) = 0 \\ \Rightarrow (y + 8)(y + 13) &= 0 \Rightarrow y = -8, -13 \Rightarrow x > y. \end{aligned}$$

$$43. (d) [(14.98 + 8.95) \div 0.99] \times 3.9 = ?^4 + 10.93$$

$$\Rightarrow [23 \times 4] = ?^4 + 11 \Rightarrow 81 = ?^4 \Rightarrow ? = \sqrt[4]{81} = 3$$

$$44. (c) (221.22 + 72.90) \div 5.99 = 3.99\% \text{ of } 199.99 + 19.99 + ?$$

$$\Rightarrow 49 = \frac{3}{100} \times 200 + 20 + ? \Rightarrow ? = 23$$

$$45. (d) 219.89 + 2.99 + 199.96 = 2.99 \times ? + 209.98 \\ \Rightarrow 220 + 27 + 200 = 3? + 210 \Rightarrow \frac{237}{3} = ? \Rightarrow 79 = ?$$

$$46. (d) \frac{26}{100} \times 300 + 510 - (31 \times 4) = 588 - 124 = 464 \\ \frac{100}{70} \times 70 = 25 \times 4 - ? + 6 \times 4$$

$$47. (c) \frac{100}{28} = 100 - ? + 24 \Rightarrow ? = 96$$

$$48. (c) 131 \times 3 + 63 = 70 \div 7 + \frac{?}{100} \times 21 + 5 \\ \Rightarrow \frac{441 \times 100}{21} = ? \Rightarrow ? = 2100$$

$$49. (d) 17 \times 4 + \frac{60}{100} \times 250 = \frac{25}{100} \times 40 + 13? \\ \Rightarrow 68 + 150 = 10 + 13? \Rightarrow \frac{208}{13} = ? \Rightarrow ? = 16$$

$$50. (d) 22 \times 23 - \frac{40}{100} \times 800 = \sqrt{36} \times ? \\ \Rightarrow 506 - 320 = 6 \times ? \Rightarrow ? = \frac{186}{6} = 31 \Rightarrow ? = 31$$

$$51. (b) \frac{?}{100} \times 400 \times \frac{3}{4} + 300 = 67 \times 9 \\ \Rightarrow 3 \times ? = 603 - 300 \Rightarrow ? = 101$$

$$52. (a) \frac{25}{100} \times 84 + \frac{20}{100} \times 140 = 2 + \frac{11}{100} \times 500 + ? \Rightarrow ? = -8$$

$$53. (c) \sqrt{121} + 81 \div 9 = 144 \div 36 + (?)^2 \\ \Rightarrow 11 + 9 = 4 + ?^2 \Rightarrow \sqrt{16} = ? \Rightarrow ? = 4$$

$$54. (d) 33 \times 5 - 60 = 25 \times 16 - ? \times 59 \\ \Rightarrow 105 = 400 - 59? \Rightarrow ? = \frac{295}{59} = 5$$

$$55. (c) \frac{?}{100} \times 550 \times \frac{2}{5} + \sqrt{625} = \frac{29}{100} \times 630 - 10 \\ \Rightarrow 2? + 25 = 2.9 \times 63 - 10 \Rightarrow 2? + 25 = 189 - 10 \\ \Rightarrow ? = \frac{179 - 25}{2} \Rightarrow ? = 77$$

$$56. (d) 13^2 + 171 \div 19 \times 2 = ? + 15 \\ \Rightarrow \frac{169}{25} \times 28 - \frac{18}{20} \times 30 + 4 = 5 \times ?$$

$$57. (e) \frac{100}{100} \Rightarrow ? = 1$$

$$58. (d) \text{Sale of bat for T\&T company} = 400 \times \frac{120}{100} = 480 \\ \text{Sale of gloves by T\&T company} = 150 \times \frac{70}{100} = 105 \\ \text{Total number of gloves and bats sold by T\&T in 2020} \\ = 480 + 105 = 585.$$

$$59. (a) \text{Number of gloves made by I in 2020} = 90 \\ \text{Number of gloves made by J in 2020} = 120 \\ \text{Number of gloves made by K in 2020} \\ = 150 \times \frac{120}{100} = 180 \\ \text{Total number of gloves made by I, J, K together} = 390$$

$$\text{Number of gloves made by M} = 250 \times \frac{130}{100} = 325$$

$$\text{Required percentage} = \frac{325}{390} \times 100 = 83.33\% \sim 83\%$$

$$60. (b) \text{Sale of Bat by M in 2020} = 250 \times \frac{150}{100} = 375$$

$$\text{Sale of Ball by M in 2020} = 125 \times \frac{140}{100} = 175 \\ \text{Required ratio} = 375 : 175 = 15 : 7$$

$$61. (c) \text{Total sale of bat in 2019} \\ = 250 + 325 + 375 + 400 + 250 = 1600 \\ \text{Total sale of bat in 2020} = \frac{220}{100} \times 1600 = 3520$$

As the sales of other are same except M and L.  
So, number of bats sold in 2020 from I, J, K = 950  
Number of bat sold by M and I in 2020  
= 3520 - 950 = 2570

$$\text{Number of bat sold by M and I in 2020} \\ = \frac{2570}{2} = 1285.$$

$$\text{Total number of bats sold by M in 2019 and 2020} \\ = 250 + 1285 = 1535$$

$$62. (b) \text{Required ratio} = 1600 : 775 = 64 : 31$$

$$63. (e) \text{Let the speed of stream} = x \text{ km/hr} \\ \text{Speed of boat in upstream} = 12 - x \\ \text{Speed of boat in downstream} = 12 + x \\ \text{According to the question,}$$

$$\frac{36}{12 - x} = \frac{2}{1} \Rightarrow \frac{3(12 + x)}{5(12 - x)} = \frac{1}{1} \\ \frac{12 + x}{12 - x} = 1 \Rightarrow 36 + 3x = 60 - 5x \Rightarrow 24 = 8x \Rightarrow 3 \text{ km/hr} = x$$

$$64. (c) \text{Area of triangle} = \frac{1}{2} \times \text{Base} \times \text{Height} = 84 \\ \Rightarrow \frac{1}{2} \times 12 \times \text{Base} = 84 \Rightarrow \text{Base} = 14$$

According to the question,  
Perimeter of rectangle = 2 (L + B) = 42  
L + B = 21  
 $\Rightarrow L + 14 = 21$   
{Q Base of triangle = Breadth of rectangle}  
 $\Rightarrow L = 7$

$$65. (c) \text{Let the ratio of income} = x \\ \text{and the ratio of expenditure} = y \\ \text{According to the question,} \\ 14x - 10y = 2000 \quad \times 5 \\ 10x - 6y = 2000 \quad \times 7 \\ 70x - 50y = 10000 \\ 70x - 42y = 14000 \\ - \quad + \quad - \\ \hline 8y = 4000 \\ \Rightarrow y = 500 \\ \text{Income of I}^{\text{st}} \text{ friend,} \\ 14x - 5000 = 2000 \Rightarrow 14x = 7000$$



- Income of 2<sup>nd</sup> friend,  
 $10x - 3000 = 2000 \Rightarrow 10x = 5000$   
 Sum of monthly income of both =  $7000 + 5000 = 12000$
66. (b) Total weight of class =  $15 \times 40 = 600$  kg  
 According to the question,  
 Boys + Girls = 400  
 $B + \frac{40B}{100} = 40$   
 $\Rightarrow 8B = 40 \times 3 \Rightarrow B = 25, G = 15$   
 Total weight of Girls =  $15 \times 12 = 180$  kg  
 Total weight of Boys =  $600 - 180 = 420$  kg  
 Avg. weight of Boys =  $\frac{420}{25} = 16.8$  kg  
 Required difference =  $16.8 - 12 = 4.8$  kg
67. (a) Total age of Sunil and Tanisq = 44  
 Age of all three friends = 72  
 Age of Depank =  $72 - 44 = 28$   
 According to the question,  
 Sahil : Depank = 5 : 7  $\Rightarrow \frac{\text{Sahil's age}}{\text{Depank's age}} = \frac{5}{7}$   
 $\Rightarrow \text{Sahil's age} = \frac{5 \times 28}{7} = 20$   
 Present age of Tanisq =  $44 - 20 = 24$  years.
68. (a) According to the question,  
 $I = \frac{P \times R \times T}{100}$   
 Let the principal be 'P'.  
 $\frac{2P}{5} = \frac{P \times 20 \times T}{100}$   
 $\Rightarrow T = 2$   
 Now, interest after (T + 4) years,  
 $I = \frac{P \times 20 \times T}{100} = \frac{6P}{5}$   
 Amount after 6 years =  $P + \frac{6P}{5} = 2.2P$
69. (b) Amount spent by Ram on entertainment  
 $= 18000 \times \frac{25}{100} = ₹ 4500$   
 Amount spent by Ram on travelling  
 $= 18000 \times \frac{12}{100} = ₹ 2160$   
 Amount he saves in bank account  
 $= \frac{x}{100} \times 18000 = 180x$   
 According to the question,  
 $4500 + 2160 + 180x = 18000$   
 $\Rightarrow x = 51\%$   
 Amount he saves in his bank account =  $\frac{51}{100} \times 18000$   
 $= ₹ 9180$

70. (d) Time taken by train to cross I<sup>st</sup> platform:  
 $x$  be the long of train,  
 $36 = \frac{280 + x}{ST}$  {Q ST is the speed of train}  
 $\Rightarrow ST = \frac{280 + x}{36}$  ... (1)  
 Time taken by same train to cross II<sup>nd</sup> platform:  
 $40 = \frac{360 + x}{ST}$   
 $\Rightarrow ST = \frac{360 + x}{40}$  ... (2)  
 From (1) and (2),  
 $\frac{280 + x}{36} = \frac{360 + x}{40}$   
 $\Rightarrow 2800 + 10x = 3240 + 9x$   
 $\Rightarrow x = 440$  m  
 $\Rightarrow ST = \left( \frac{280 + 440}{36} \times \frac{18}{5} \right) \text{ km/hr}$   
 $= 72 \text{ km/hr.}$

**Sol. (71-75):**

The sentences flow naturally from one another. The sentences detail a specific worm's behaviour. A closer look reveals that the first sentence of the paragraph is phrase C. Sentence C therefore acts as the introduction. The remaining sentences come after sentence C.  
 Hence, option B is the correct answer.

**Pairing**

|                 |                                                                                                                   |                                                                        |
|-----------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>C and E:</b> | the worm coughs up a net                                                                                          | the worm sucks this net back                                           |
| <b>E and D:</b> | tosses the rest away through the back end of its burrow.                                                          | It does this by spraying a jet of water out of its butt.               |
| <b>D and A:</b> | It does this by spraying a jet of water out of its butt                                                           | a meal for other tiny beach denizens, such as crabs, shrimp and clams. |
| <b>A and F:</b> | a meal for other tiny beach denizens, such as crabs, shrimp and clams.                                            | various opportunistic animals looking for a free bed and meal.         |
| <b>F and B:</b> | In fact, it's common for the worm's burrow to host various opportunistic animals looking for a free bed and meal. | This is where the worm's "fat innkeeper" nickname comes from.          |

71. (b)  
 72. (d) The correct sequence of the sentences: CEDAFB  
 73. (a) The correct sequence of the sentences: CEDAFB  
 74. (d) The correct sequence of the sentences: CEDAFB  
 75. (e) The correct sequence of the sentences: CEDAFB  
 76. (c) The correct spelling is 'parties'.  
 77. (a) The correct spelling is 'spilled'.

78. (b) The correct spelling is 'distribute'.
79. (d) The correct spelling is 'exception'.
80. (c)
81. (d) From the text given, it is clear that experts believe that policy decisions that ignore the environmental aspects of the region are the main cause of the country's floods.  
It makes Option (d) the right choice among the given options.
82. (c) It implies from the given lines that the states should ponder over the steps to be taken in order to preserve the ecology of the Western Ghats Area and they should think about implementation of the expert panel report on this issue.  
This makes Option (c) the right choice among the given options.
83. (e) Statement A is incorrect since the expert panel has recommended formation of committee and authority to oversee the development in the Western Ghats Area. Statements B, C and D are not in sync with the given context though they may sound logical otherwise. Only Option (e) implies the same as has been depicted in the passage.  
This makes Option (e) the right choice among the given options.
84. (b)
85. (a) To protect the Western Ghats region, it is clear that solar energy in the region should be encouraged, along with a moratorium on mining and quarrying activities in the region. Apart from that, the construction of new hydroelectric dams in this area should be restricted. Therefore statements I and III are true.  
Hence, Option (a) is the right choice among the given options.
86. (a) It is assumed that there must be a central authority to regulate local development with the assistance of state level authorities so that the whole process is well coordinated. Statement A implies this, but the rest of the options clearly do not imply this kind of regulation in this area.  
This makes Option (a) the right choice among the given options.
87. (e) From the given lines, it is clear that the Kerala Finance Minister believes that the public should be involved in the process of building a blueprint for the Western Ghats region of the country. It will then be possible to outline a development roadmap for the region. Statements E only implies the same with the other options being irrelevant in the given context.  
This makes Option (e) the right choice among the given options.
88. (c) Hence, Option (c) is the right choice among the given options.
89. (a) The error is in part A of the sentence.  
**Reason:**  
When an "if" clause and a principal clause (which is in future tense) are present in a single sentence, the 'if' clause should always be in the present or past tense.  
**Correct Sentence:**  
**If I had an** even faster computer than I have today, I could come up with really interesting questions to ask it.  
Therefore, option A is the correct answer choice to this question.
90. (c) Reason: one of/none of/ either of/ neither of/ + plural noun/pronoun+ singular verb
91. (b) The type of (singular so) depend upon DEPENDS upon
92. (b) Everybody is subject. It takes singular subject
93. (b) "disputes now a days because of "by "disputes now a days because". It is superfluous to use preposition of as subordinate clause follows.
94. (b) Lie Lay Lain ( to relax in or on something)  
Lay Laid (to spread Something Somewhere)  
Incorrect verb (v2) is used.
95. (a) Replace our company is yet starting by we are yet to start.  
Yet is occasionally used in affirmative sentences, giving the sentences a similar meaning as the use of still. Note that this is more formal and not common. "Yet to " is followed by 1st form of verb.  
I am yet to complete this project.  
I am still working on this project.
96. (c) To answer this question correctly one needs to be good at general awareness as per which Russia is world's biggest country by 'area'.  
Option (c) is hence the correct answer.
97. (a) As the words "considered" and "contemplated" are synonyms, neither of them could be picked for the blank. Options (b) and (c) hence get eliminated.  
Moreover, the words "refuted" and "revoked" are negative in meaning and thus would not go well with the context. Options (d) and (e) get eliminated as well.  
Clearly, the word "inked", the present form of which refers to 'sign or enter a pact or contract' is the word that'd be fitting the gap appropriately.  
Option (a) is hence the correct answer.
98. (b) The word "elevated" clearly fits the gap both grammatically and contextually.  
Option (b) is hence the correct answer.
99. (d) Of the options given, only the noun phrase "think tank," referring to "a group of experts who provide advice and ideas on a particular political or economic issue," is the most appropriate option for choosing Gap. Option (d) is hence the correct answer.
100. (c) Clearly, the word "vigorous" which means 'strong and forceful' would be the most appropriate word for the blank in the given context of the passage.  
Option (c) is hence the correct answer.

# SBI Clerk (Junior Associates) Mains Solved Paper-2021

(Based on Memory)

Time : 160 minutes

Max. Marks : 200

## Reasoning Ability & Computer Aptitude

**DIRECTIONS (Qs. 1-5):** Study the following information carefully to answer the given questions:

Ten friends - Q, R, S, T, U, V, W, X, Y and Z are sitting around a circular table, but not necessarily in the same order. All friends are facing inside. Adjacent name as in alphabetical series are not sitting nearby to each other in the circle.

There are two persons sitting between the Q and Z when count from the left of Z. More than three persons are sitting between the R and Z when count both left and right of Z. Q sits just to the left of U who sits third to the left of X. More than four persons sit between T and Y when counted to the left of Y. Y sits near to R. W does not sit near to Y. S sits just right of V.

- How many persons are sitting between X and R when counted to the right of X ?  
(a) Two (b) Three  
(c) Four (d) Five  
(e) Six
- Who is sitting fourth to the left of V ?  
(a) U (b) T (c) S (d) R  
(e) Q
- Who is sitting just to the near of U and T ?  
(a) W (b) R (c) Z (d) X  
(e) Q
- How many persons are sitting between W and T when counted to the right of W ?  
(a) Four (b) Five  
(c) Six (d) Seven  
(e) Eight
- Who sits third to the right of S ?  
(a) Q (b) U (c) W (d) T  
(e) R

**DIRECTIONS (Qs. 6-10):** Study the following information carefully and answer the questions given below. A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement.

**Input :** 62973874551286456822

**Step I :** 13629738745586456823

**Step II :** 39136297745586682346

**Step III :** 56391397748668234663

**Step IV :** 69563913978623466375

**Step V :** 87695639132346637598

And Step - V is the last step of the rearrangement as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

**Input :** 88592894377515647148

- How many numbers are there between the one which is 3<sup>rd</sup> from the right end and 38 in step 3?  
(a) Four (b) One  
(c) Three (d) None  
(e) More than four
- Which of the following number is 7<sup>th</sup> from the left end in step 5?  
(a) 46 (b) 79 (c) 56 (d) 49  
(e) None of these
- What is the position of 88 from the right end in 2<sup>nd</sup> last step?  
(a) Fourth (b) Fifth  
(c) Sixth (d) Third  
(e) None of these
- How many numbers are there between 72 and the one which 4<sup>th</sup> to left of 76 in step 5?  
(a) None (b) Three  
(c) Two (d) More than three  
(e) None of these
- Which of the following number is 5<sup>th</sup> to left of 49 in step 4?  
(a) 60 (b) 38 (c) 72 (d) 40  
(e) None of these

**DIRECTIONS (Qs. 11- 14):** In the questions below are given four statements followed by two or three conclusions numbered I, II or III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

### 11. Statements :

Some Small are Shirt.

All Shirt are Cloth.

No Cloth is Rectangle.

All Jeans are Rectangle.

### Conclusions :

I. Some Small are Cloth.

II. Some Small are not Rectangle.

(a) None follows (b) Either I or II follows

(c) Only I

(d) Only II

(e) All follow

### 12. Statements:

Some Redmi are Lava.

Some Lava are Iron.

Some Iron are Samsung.

Some Samsung are Nokia.

### Conclusions:

I. Some Lava are Redmi.

II. Some Samsung are Lava.

- (a) None follows (b) Only I  
(c) Either I or II (d) Both I and II  
(e) None of these

**13. Statements:**

Some flowers are roses.  
Some roses are foods.  
All honey are Sweet.  
All foods are honey.

**Conclusions:**

I. Some Sweet are roses. II. No honey is flower.

- (a) Only conclusion II is true  
(b) Only conclusion I is true  
(c) Both conclusions I and II are true  
(d) Either conclusion I or II is true  
(e) Neither conclusion I nor II is true

**14. Statements:**

All biscuit are breads.  
All breads are cakes.  
Some cakes are pastries.  
No pastry is jam.

**Conclusions :**

I. Some pastries are biscuit.  
II. Some breads are biscuit.  
III. Some cakes are breads.

- (a) None follows. (b) Only I follows.  
(c) Only II and III follow. (d) Only II follows.  
(e) None of these.

**DIRECTIONS (Qs. 15- 18) :** In the following questions, the symbols @, &, ×, \$ and # are used with the following meaning as illustrated below :

'1 # 2' means '1 is neither greater than nor equal to 2'.

'1 & 2' means '1 is neither smaller than nor greater than 2'.

'1 \$ 2' means '1 is not greater than 2'.

'1 @ 2' means '1 is greater than 2'.

'1 × 2' means '1 is either greater than or equal to 2'.

Now in each of the following questions assuming the given statements to be True, find which of the conclusion/s given below them is/are definitely True?

**15. Statement:**

$N \times W \$ Q; U \# P \& G; G \times Q @ K; W @ C; D \$ U$

**Conclusion**

I.  $U @ W$  II.  $Q \& D$   
III.  $N @ C$

- (a) Only III conclusion is true  
(b) Both conclusion II and III are true  
(c) Either conclusion II or conclusion III is true  
(d) Only I conclusion is true  
(e) All the above conclusions are true

**16. Statement:**

$N \times W \$ Q; U \# P \& G; G \times Q @ K; W @ C; D \$ U$

**Conclusion**

I.  $Q @ D$  II.  $K \# P$   
III.  $C \times Q$

- (a) Only III conclusion is true  
(b) Both conclusion II and III are true  
(c) Either conclusion II or conclusion III is true  
(d) Only II conclusion is true  
(e) All the above conclusions are true

**17. Statement:**

$N \times W \$ Q; U \# P \& G; G \times Q @ K; W @ C; D \$ U$

**Conclusion**

I.  $D \times N$  II.  $P @ N$   
III.  $C \$ K$

- (a) Only III conclusion is true  
(b) Both conclusion II and III are true  
(c) Either conclusion II or conclusion III is true  
(d) Only II conclusion is true  
(e) None of the above conclusions is true

**18. Statement**

$N \times W \$ Q; U \# P \& G; G \times Q @ K; W @ C; D \$ U$

**Conclusion**

I.  $P \times W$  II.  $D \& G$   
III.  $K \# U$

- (a) Only I conclusion is true  
(b) Both conclusion II and III are true  
(c) Either conclusion I or conclusion III is true  
(d) Only II conclusion is true  
(e) None of the above conclusions is true

**DIRECTIONS (Qs. 19-23):** Study the following information carefully and answer the questions based on it:

If @ means east, # means west, & means north, % means south.  
@ and & means distance between points is either 4m or 15m.

# and % means distance between points is either 7m or 18m.  
Combination of two symbols means consider only the direction and not the distance.

Note:  $AB < BC$  means the distance between A and B is lesser than distance between B and C.

$Y \& S; S \# P; O \& P; O \& @ Y; N @ O; W \% N; NW > OP; SP < NW; ON < SP; K @ Y; K \& \# P; U \% K; U \% \# W.$

19. The distance between S and P is an odd number. What is the direction of N with respect to K?  
(a) North (b) North - west  
(c) South - east (d) North - east  
(e) None of these
20. What is the possible distance between Point K and Point U?  
(a) 7m (b) 4m (c) 18m (d) 15m  
(e) None of these
21. What is the sum of shortest distance between line (Y, S) and line (P, W)?  
(a) 9m (b) 10m (c) 14m (d) 20m  
(e) None of these
22. Point S is in which direction with respect to Point O?  
(a) North - east (b) North - west  
(c) South - east (d) South - west  
(e) None of these
23. What is the difference of shortest distance between line (S, P) and line (O, P)?  
(a) 6m (b) 8m (c) 10m (d) 14m  
(e) None of these

**DIRECTIONS:** Study the following information carefully and answer the questions given below.

24. Following are the conditions for selecting Admin Executive in an organization. The Candidate must-
- Be a Graduate in any discipline with at least 65% marks.
  - Have secured at least 50% marks in the selection interview.

- (iii) Have post qualification work experience of at least three years in the admin division of an organization.
- (iv) Have secured at least 55% marks in the selection examination.
- (v) Have a post Graduate degree/diploma in Admin-Management with at least 60% marks.

Study the following information carefully and find which of the following condition shows candidate is selected?

- (a) Candidate is daughter of a renowned freedom fighter from another state.
- (b) Candidate has a post Graduate degree in Finance with 60% marks.
- (c) Candidate has completed his graduation with 80% marks.
- (d) Candidate does not own a house in Noida.
- (e) Candidate has secured 56% marks in Cap Gemini's interview.

**DIRECTIONS :** In the following question, a statement has been given which is followed by three courses of action numbered I, II, III. A course of action is a step or administrative decision to be taken for improvement, follow up, or further action in regard to the problem, policy etc. On the basis of the information provided. You have to assume everything in the statement to be true, then decide which of the given/suggested courses of action logically follows for pursuing.

25. **Statement:** Every year thousands of able students, both in rural as well as in urban areas cannot get admission in colleges despite passing the last certificate examination of their schools.

**Courses of Action:**

- I. More colleges should be established in rural as well as in urban areas.
  - II. The number of schools in rural as well as in urban areas should be decreased.
  - III. A good number of schools should conduct vocational courses. So that the students could start preparing to get employed after completing the school education.
- (a) Only I follows
  - (b) Only II and III follow
  - (c) All follow
  - (d) Only I and III follow
  - (e) None of the above

26. **Direction:** In the question below are given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy, etc. On the basis of the information given in the statement to be true, then decide which of the suggested courses of action logically follow(s) for pursuing.

**Statement:** Air pollution has emerged as a major environmental challenge in Indian cities and across the states. Emissions from multiple sources are responsible for the condition which can bring down the life expectancy by 5 years on average.

**Course of action:**

- I. Government should impose a limit on the manufacturing of vehicles across the country.
- II. Awareness programs should be conducted and people should be encouraged to pool vehicles.

- (a) Only I follows.
- (b) Only II follows.
- (c) Both I and II follow.
- (d) Neither I nor II follows.
- (e) Either I or II follows.

**DIRECTIONS (Qs. 27-28):** In each question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement. Give answers accordingly.

27. **Statement:** Population increase coupled with depleting resources is going to be the scenario of many developing countries in the days to come.

**Conclusions:**

- I. The population of developing countries will not continue to increase in future.
  - II. It will be very difficult for the governments of developing countries to provide its people decent quality of life.
- (a) Only conclusion I follows.
  - (b) Only conclusion II follows.
  - (c) Either I or II follows.
  - (d) Neither I nor II follows.
  - (e) Both I and II follow.

28. **Statement:** It is unhealthy to keep plants in bedrooms, especially at nights. Due to the excess carbon dioxide produced during those hours, it can lead to suffocation.

**Conclusion**

- I. We should not grow plants at home.
  - II. Plants need to be placed in outer spaces like windows or balconies.
- (a) Only I follows.
  - (b) Only II follows.
  - (c) Both I and II follow.
  - (d) Neither I nor II follows.
  - (e) Either I or II follows.

**DIRECTIONS (Qs. 29- 30):** One statement is given followed by two arguments, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given arguments be definitely drawn from the given statement.

29. **Statement:** The usage of mobile phones by students should be permitted in all schools.

**Arguments:**

- I. No, it might become an unproductive gadget under those age group students.
  - II. Yes, students can travel safely and communicate to parents whenever necessary.
- (a) Argument I alone is true.
  - (b) Argument II alone is true.
  - (c) Both arguments I and II are true.
  - (d) Either argument I or II is true.
  - (e) Neither argument I nor II is true.

30. **Statement:** Should government ban Cigarette industries?

**Arguments:**

- I. Yes, as it is very injurious for any person consuming them and causes cancer.
- II. No, forbidding them would mean that those people who work in cigarette industries would lose their jobs.



- (a) Only argument I is strong
- (b) Only argument II is strong
- (c) Neither I nor II is strong
- (d) Both I and II are strong
- (e) Either I or II is strong

**DIRECTIONS:** A series is given with five word in which few operations are performed.

FLAW DARK FLOW PACT JOKE

31. How many letters are there in alphabetical series, between 3<sup>rd</sup> letter from the right end of 2<sup>nd</sup> word from left end and 1<sup>st</sup> letter from the left end of the word which is 2<sup>nd</sup> from the right end?
- (a) 15 (b) 12 (c) 13 (d) 14  
(e) 14

**DIRECTIONS (Qs. 32-36):** Study the following information carefully and answer the given below questions.

Eight people S, T, U, V, W, X, Y and Z go for a trip either in 2009 or 2010 in the month of January, April, July, October. Only two persons go on the trip in a month but they go in different years. They go for trips to eight different countries namely Russia, Canada, Maldives, Malaysia, Australia, USA, Switzerland and UAE but not necessarily in the same order. T goes UAE in 2010 in the month having even no of days. Z and W go in the same month. Z neither go in October nor go to Switzerland and USA. Not more than two people go on the trip before S, who goes on Russia trip. S does not go in the month having an even number of days. One person go between W and X. X does not go for the trip in the first month of any year and He goes to the Maldives. One person go between Y and U. Y does not go just before the one who goes to Canada. Three person goes for the trip between the one who goes for Malaysia and the one who goes for Switzerland. Neither Y nor W goes to Switzerland. The one who goes to Canada goes after the USA.

32. Who among the following goes to Australia for trip?  
(a) Z (b) Y (c) X (d) W  
(e) V
33. Y goes for trip in which of the following Month?  
(a) January 2010 (b) January 2009  
(c) April 2009 (d) April 2010  
(e) October 2009
34. Number of persons go for trip before U is same as the number of person go for trip after \_\_\_\_\_?  
(a) The one who go to Maldives  
(b) Y  
(c) The one who go to Canada.  
(d) X  
(e) None of the given option is true
35. Who among the following go for trip in July?  
(a) S (b) W  
(c) X (d) Both S and W  
(e) Both S and X
36. Which of the following combination is correct?  
(a) Z - Malaysia (b) X - Switzerland  
(c) S - January (d) W - October  
(e) Y - USA

**DIRECTIONS (Qs. 37-40):** Read the instruction carefully and answer the questions given below.

R, S, T, U, V, W, X, Y, and Z are the nine members of a family. Either both the parents of a person are alive or neither of them is alive. T is the daughter of Y who is the daughter-in-law of W. S is elder than Y. X is the daughter of V who is the brother of Z. R is elder than W who is the mother of Z. T is the elder sister of X. R is the paternal grandfather of U who is the only son of S. Z is elder than S but younger than V. W has no daughters. Z got married after X was born. T is younger than Y

37. How many are older than T's father?  
(a) No one (b) One  
(c) Two (d) Three  
(e) More than three
38. How is V related to U?  
(a) Father (b) Grandfather  
(c) Paternal Uncle (d) Sister-in-law  
(e) Brother-in-law
39. How is S related to W?  
(a) Mother (b) Mother-in-law  
(c) Daughter-in-law (d) Son-in-law  
(e) Grandson
40. Who among the following is 4<sup>th</sup> oldest?  
(a) R (b) W (c) Z (d) V  
(e) Y

**DIRECTIONS:** In the questions below consists of a question and three statements numbered I, II and III. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the three statements and give answer accordingly.

Six members of the family X, Y, Z, P, Q and R are standing in a row and all are facing the north direction. Who is standing between Z and Q?

41. **Statement I :** X is standing second from the left end. Z is standing third to the left of Y who is near to Q.  
**Statement II :** Y is not the immediate neighbour of R who does not sits any extreme end of the row.  
**Statement III :** Q is not the neighbour of X.
- (a) If the data in statement I alone or in statement II alone or in statement III alone is sufficient to answer the question.  
(b) If the data in statement I and II are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.  
(c) If the data in statement I and III are sufficient to answer the question, while the data in statement II is not sufficient to answer the question.  
(d) If the data in statement II and III are sufficient to answer the question, while the data in statement I is not sufficient to answer the question.  
(e) If the data in all the statement I, II, and III are necessary to answer the question.

**DIRECTIONS (Qs. 42- 43):** In the following questions, a given question is followed by information in two statements. You have to find out the data in which statement (s) is are sufficient to answer the question and mark your answer accordingly.

42. On which day of the second week of the month Rahul's exam is scheduled?  
 I. The exam is scheduled on the sixth day of the week, the first day of the week is Sunday.  
 II. The exam is scheduled after Thursday but before last day of the week i.e. Saturday.  
 (a) II alone is sufficient while I alone is not sufficient.  
 (b) I alone is sufficient while II alone is not sufficient.  
 (c) Either I or II alone is sufficient to answer the question.  
 (d) I and II together are sufficient to answer the question.  
 (e) Neither I nor II is sufficient to answer the question.
43. There are 4 people sitting around a circular table W, X, Y and Z at equal distant points around the circle, facing the centre of the circular table.  
 Who sits to the second position at the right of W?  
 I. X sits to the second position to the left of W.  
 II. Y sits to the second position to the right of Z.  
 (a) II alone is sufficient while I alone is not sufficient.  
 (b) I alone is sufficient while II alone is not sufficient.  
 (c) Either I or II alone is sufficient to answer the question.  
 (d) I and II together are sufficient to answer the question.  
 (e) Neither I nor II is sufficient to answer the question.
47. Who lives just below the one who likes Blue color ?  
 (a) E (b) B (c) D (d) C  
 (e) A
48. What will be the correct combination from the given option?  
 (a) F- Flat 2 - Floor 1  
 (b) Yellow - Flat 2 - Floor 2  
 (c) B - Flat 1 - Floor 3  
 (d) Green - Flat 1 - Floor 1  
 (e) White - Flat 1 - Floor 3
49. Who lives just to the east of D ?  
 (a) F (b) A (c) E (d) C  
 (e) B
50. Who likes red color ?  
 (a) D (b) A (c) F (d) C  
 (e) E

### Quantitative Aptitude

**DIRECTIONS (Qs. 51-55) :** Read the following information carefully and answer the questions that follow:

Five members of a family viz. Mukesh his wife Taniya, their two children Nitu and Vikash and their daughter-in-law Arsha spent different amount from their respective salaries in a month. Total expenditure of the family per month is ₹ 3,30,000 which is 75% of the total income of the family per month. Taniya saving is 1/3rd of the savings of her daughter-in-law who earns ₹ 60,000 a month and spent 60% of her salary. Salary earned by Nitu is the highest in the family i.e. ₹ 1,20,000 per month and her expenditure is twice the expenditure of Arsha. Taniya saves 10% of her income and her husband saves 20% of his income. Mukesh earns ₹ 90,000 per month.

**DIRECTIONS (Qs. 44- 45) :** There are Six dices numbered 1, 2, 3, 4, 5, 6 are placed one above another (not in the same pattern). Two dices are placed between 1 and 3 is placed immediately below (5) One dice is placed between 6 and 4, 2 is placed one of the above place of 4 and one of the below place of 5 but not immediate above or below. 6 is not placed at the bottom. Odd numbered dice is placed at the top and the Even numbered dice is placed at the bottom.

44. How many dices were placed between 3 and 2?  
 (a) 1 (b) 2 (c) 3 (d) 4  
 (e) None
45. Which of the following dice is placed just above 4?  
 (a) 5 (b) 6 (c) 1 (d) 3  
 (e) 2

**DIRECTIONS (Qs. 46 -50) :** Study the following information carefully and answer the question given below:

In a building of three floors and each floor having two flats as Flat - 1 and Flat - 2 There are six people live in these flats named as A, B, C, D, E and F. They also like different color Red, Blue, Green, Yellow, Black and White but not necessary in the same order. The bottom floor is numbered 1 and the top floor is numbered 3 Flat -1 is in the west direction of Flat - 2.

E likes green color lives on the odd number floor and flat which is also odd in number. There is one floor between A and E but A not lives in the same flat of E. There is one floor between the one who like red color and the one who like black color. No person lives between the one who like white color and C who lives on even number floor. D neither like red nor black color. B is not like red color and lives one of the floor below the one who likes red color but not just below. A is not like the red color. Person who likes white color and yellow color did not live in same flat.

46. Person who likes Yellow color lives on which flat and floor?  
 (a) Flat -1 Floor - 1 (b) Flat - 2 Floor 1  
 (c) Flat 1 Floor 2 (d) Flat 2 Floor 2  
 (e) Flat 1 Floor 3
51. Income of which of the following two members of the family is same?  
 (a) Taniya and Vikash (b) Mukesh and Taniya  
 (c) Nitu and Arsha (d) Mukesh and Vikash  
 (e) None of these
52. What is the average salary of the family per month?  
 (a) ₹ 72,000 (b) ₹ 64,000  
 (c) ₹ 88,000 (d) ₹ 90,000  
 (e) None of these
53. What is the ratio of the salary earned to salary spent by Arsha in a month?  
 (a) 5 : 2 (b) 5 : 3  
 (c) 2 : 5 (d) 3 : 5  
 (e) None of these
54. What is the difference between the expenditure of Taniya and Nitu in a month?  
 (a) ₹ 4000 (b) ₹ 6000  
 (c) ₹ 8000 (d) ₹ 10,000  
 (e) None of these
55. Salary earned by Arsha is what % of salary earned by Taniya?  
 (a) 65% (b) 45% (c) 50% (d) 75%  
 (e) None of these
56. The distance between the two trains is 300 km and moving in the opposite direction on the same track. The speed of

one train is 72 km/hr and the speed of another train is 48 km/hr. A bird starts flying at a speed of 68 km/hr at the location of the faster train. When it reaches the slower train, it turns around and flies in the opposite direction at the same speed. When it reaches the faster train again it turns around and so on. When the train collide, how far has the bird flown (in km)?

- (a) 180km (b) 150km  
(c) 170km (d) 160km  
(e) None of these

57. Income of P is ₹x and income of Q is ₹y. Expenditure on food by both is 10% of their income. Expenditure on entertainment by P is twice the expenditure on food. Saving of P is ₹35,000. Expenditure on entertainment by Q is ₹12,000. Saving of Q is 75% of his income. Find their income?

- (a) ₹72,000 and ₹54,000 (b) ₹80,000 and ₹60,000  
(c) ₹48,000 and ₹50,000 (d) ₹80,000 and ₹50,000  
(e) None of these

58. Chemical mixtures A consist of chemicals P and Q in ratio of 1 : 3, Chemical B consist of chemicals P which chemical B is present. Both the chemicals A and B are mixed in a large container. What is % of concentration is present in final mixture as P?

- (a) 35% (b) 50% (c) 40% (d) 25%  
(e) None of the above

59. Yuvi sells two types of milk. In the first type of milk, there is 40% milk is present and the rest is from water, whereas, in the second types only 40% water is present. He takes 30 litres and 20 litres of milk from both types respectively. What is the percentage of milk present in the new mixture?

- (a) 64% (b) 36% (c) 50% (d) 48%  
(e) None of these

60. J, K and L invest together in business wherein they receive profit ₹63,000. J reinvests his share of profit in a scheme giving 10% rate of interest after two years and K reinvests his share of profit which gives him 20% rate of interest at end of two years. If interest received by J and K after 2 years is ₹3969 and ₹8316 then find interest earned by L if he reinvests his share in same scheme as J did for 2 years.

- (a) ₹5475 (b) ₹7690  
(c) ₹6658 (d) ₹4768  
(e) ₹5292

**DIRECTIONS (Qs. 61-63) :** What approximate value should come in the place of question mark (?) in the following question?

61.  $12.97^3 \times 3.99 \div 52.08 + 107.99 + \sqrt[3]{1727.98} \times 6.93 = ?$   
(a) 240 (b) 228 (c) 232 (d) 244  
(e) None of these

62.  $(345.97 + 129.88 - 45.03) + (34.87 - 6.96 \times 2.99) = ? - \sqrt{1521}$   
(a) 485 (b) 501 (c) 595 (d) 364  
(e) None of these

63.  $(24.99\% \text{ of } 250 \times 3.95) + (21.05\% \text{ of } 300 - 49.99) = ? - 19.99\% \text{ of } 40$   
(a) 260 (b) 271 (c) 336 (d) 192  
(e) None of these

**DIRECTIONS (Qs. 64-65):** Find out the wrong number.

64. 12, 12, 16, 34, 80, 182, 362  
(a) 182 (b) 34 (c) 16 (d) 80  
(e) 12  
65. 74, 125, 76, 122, 79, 117  
(a) 76 (b) 79 (c) 117 (d) 122  
(e) 74

**DIRECTIONS (Qs. 66-70):** The following question are accompanied by two or three statements (I) and (II) or (III). You have to determine which statement(s) is/are sufficient/ necessary to answer the following question.

66. What is the amount received by Vinita?  
I. Ekansh and Vinita started a business with an investment in the ratio of 5 : 4. After 4 months Ayush joined their business with an amount 20% more than that of Ekansh, after 2 more months Vinita took out 25% of her investment. The total profit obtained after the end of year is ₹25000.  
II. Ekansh invested ₹7000 more than that of Vinita. Ayush invested 9000 more than Ekansh and the difference between the profit earned by them is ₹2000.  
(a) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
(b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.  
(c) If the data either in statement I alone or in statement II alone is sufficient to answer the question.  
(d) If the data even in both the statements I and II together are not sufficient to answer the question.  
(e) If the data in both statements I and II together are needed to answer the question.  
67. Rahul and Yogesh are traveling towards each other with certain speeds from point A and point B respectively. At what time will both meet each other at point R if both start traveling at 3:00 pm.  
I. Rahul takes 4 hours to reach point Q from point R while Yogesh takes 9 hours to reach point P from point R.  
II. Distance between point P and point Q is 1200 km, and the ratio of the speed of Rahul and Yogesh is 2 : 3.  
III. The difference between the speed of Rahul and Yogesh is 40 km/hr.  
(a) Only I is sufficient to answer  
(b) Only II and III are sufficient to answer  
(c) Either I or II and III together are sufficient to answer  
(d) All are necessary to answer  
(e) None of them is sufficient to answer  
68. There are four member A, B, C and D partners in the business. What is the profit share of B?  
I. A and B started the business with an investment of ₹Q and ₹3Q respectively and after 6 months C and D joined them with an investment of ₹(a + 5000) and ₹a respectively.

- II. At the end of the year profit share of C is ₹ 16000.  
 III. At the end of one year, the profit ratio of C and D is 1 : 3.  
 (a) Only statement II and III are sufficient.  
 (b) Any two of them are sufficient  
 (c) Only statement I and II are sufficient.  
 (d) All of them are sufficient.  
 (e) None of the statement is sufficient.
69. Ram and Shyam invested ₹ 3000 together. Ram invested his amount at compound interest for ' $x/10$ ' years at  $x\%$  rate interest and Shyam invested half of his amount at compound interest and remaining half at simple interest at the same rate of interest for the same time period. [It is given that ' $x/10$ ' is a natural number]  
 What is the value of ' $x$ '?  
 Statement I : Ratio of investment of Ram and Shyam is 1 : 2 respectively and total sum received by them together after a particular time at  $x\%$  rate of interest is ₹ 4280.  
 Statement II : Simple interest received by Shyam is ₹ 40 less than compound interest received by him.  
 Statement III : Sum of simple interest and compound interest received by Shyam after a certain time at  $x\%$  rate of interest is ₹ 2500.  
 (a) Only statement I alone is sufficient.  
 (b) Only Statement II alone is sufficient.  
 (c) Only Statement III alone is sufficient.  
 (d) Either statement I and II together or statement II and III together are sufficient.  
 (e) Statement I, II and III together are sufficient
70. Find the ratio of alcohol and water in the new mixture if the content of the two containers is mixed.  
 I. Two containers contain alcohol and water in the ratio of 2 : 3 and 4 : 5 respectively. Both the mixtures are mixed and formed a new mixture.  
 II. Containers contain 10 L and 12 L alcohol respectively.  
 (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.  
 (b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.  
 (c) Either statement I or statement II alone is sufficient to answer the question.  
 (d) The data in both the statements I and II are not sufficient to answer the questions.  
 (e) The data in both the statement I and II together are necessary to answer.

**DIRECTIONS (Qs. 71-73) :** Read the data given in paragraph carefully and answer the question. The paragraph given below shows the information about a Dairy owner who has five vessels P, Q, R, S and T out of which volume of P, Q and R is 30 liters each and volume of vessels of S and T is 50 liters each.

Cost of pure milk is ₹ 40 per liter and the cost of water is 0. In each vessel, dairy owner has a mixture of milk and water. When the dairy owner sold the mixture from vessel P at ₹ 50 per liter he earned a total profit of 50%. Quantity of water in vessel

Q is 240% of the quantity of water in vessel P. Total profit earned by milkman when he sold the mixture from vessel S at the cost of pure milk is  $(300/7)\%$  and total loss occurred to milkman when he sold the mixture from vessel T at ₹ 25.2 per liter is 25%.

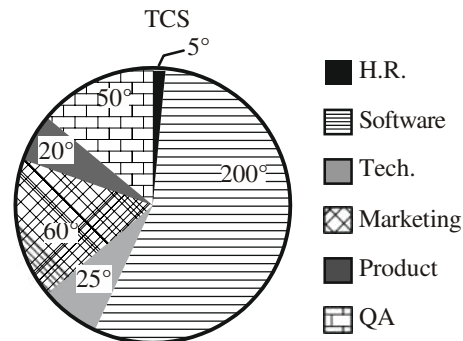
Total quantity of pure milk in vessel R is one third of the total quantity of pure milk in vessel B and vessel T together.

71. Dairy owner sold 3 liters mixture from vessel R and added the same amount of water, next time he sold 5 liters from the same vessel and added the same amount of water to it. Finally, he removes 2 liters of mixture and adds 2 liters of water. What is the ratio of milk to water in vessel R after these operations?  
 (a) 8 : 7 (b) 5 : 7 (c) 7 : 8 (d) 7 : 5  
 (e) None of these
72. If the dairy owner uses the same cane to measure milk, once from vessel P and once from vessel S, then what is the amount of pure milk purchased by the customer out of 3 liters mixture?  
 (a) 1.4L (b) 2.3L (c) 2.1L (d) 1.8L  
 (e) None of these
73. If dairy owner mixes the mixture of vessel Q with mixture of vessel T and sells this mixture at cost price of pure milk, then what is the profit percent of dairy owner?  
 (a) 25% (b)  $42\frac{3}{4}\%$  (c)  $18\frac{2}{3}\%$  (d)  $33\frac{1}{3}\%$   
 (e) None of these

**DIRECTIONS (Qs. 74 -78):** Read the following data carefully and answer the questions given below.

The following pie chart shows the member of TCS in degree in 2021. Table shows the ratio of male and female in every department.

Total member of TCS in 2021 = 720



| Department of TCS | Male : Female |
|-------------------|---------------|
| H. R.             | 2:03          |
| Software          | 4:01          |
| Tech.             | 3:07          |
| Marketing         | 3:02          |
| Product           | 1:01          |
| QA                | 3:07          |



74. How many members should be added in H.R. department to become the same number of product department?  
(a) 20 (b) 25 (c) 30 (d) 15  
(e) None of these
75. What is the percentage of the number of male in software department to the number of female in tech, department?  
(a) 964.29% (b) 914.29%  
(c) 928.32% (d) 934.29%  
(e) None of these
76. The number of QA members will be increased by 80% and the number of marketing members will be decreased by 50% in 2022 but the ratio of male and female remains same as 2021. Find the ratio of the number of males in QA department and the number of females in marketing department in 2022.  
(a) 3:5 (b) 9:4  
(c) 5:3 (d) 4:9  
(e) None of these
77. Find the number of total males in all departments in TCS.  
(a) 665 (b) 566 (c) 457 (d) 461  
(e) None of these
78. If every male earns ₹ 5000 per day in tech, department, then find the total income of males in tech, department for one month. (in lakh)  
(a) 12.5 (b) 30 (c) 22.5 (d) 27.5  
(e) None of these

**DIRECTIONS (Qs. 79-83):** In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

79. I.  $3x^2 - (2 + 15\sqrt{11})x + 10\sqrt{11} = 0$   
II.  $9y^2 - (5 + 18\sqrt{11})y + 10\sqrt{11} = 0$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relation between  $x$  and  $y$  cannot be established.
80. I.  $9x^2 - 45x + 50 = 0$   
II.  $12y^2 - 35y + 25 = 0$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relationship between  $x$  and  $y$  cannot be established.
81. I.  $x^2 + 43x + 406 = 0$   
II.  $y^2 + 46y + 513 = 0$   
(a)  $x > y$  (b)  $x < y$   
(c)  $y \geq x$  (d)  $y \leq x$   
(e)  $x = y$  or relationship between  $x$  and  $y$  cannot be established.
82. I.  $4x^2 - 20x + 16 = 0$   
II.  $4y^2 - 80y + 336 = 0$   
(a)  $x > y$  (b)  $x < y$   
(c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relationship between  $x$  and  $y$  cannot be determined.
83. I.  $7x^2 - 92x + 96 = 0$   
II.  $9y^2 - 128y + 143 = 0$   
(a)  $x > y$  (b)  $x < y$

- (c)  $x \geq y$  (d)  $x \leq y$   
(e)  $x = y$  or relationship between  $x$  and  $y$  cannot be established.
84. A mobile shop owner marks up the cost price of an mobile phone by 50% and offers a discount of 20%. He asks the customer to pay GST of 18% on the selling price. The customer refuses to pay the tax due to which the shop owner himself pays the GST. Find his profit or loss percentage.  
(a)  $2\frac{3}{5}\%$  Profit (b)  $1\frac{3}{5}\%$  Loss  
(c)  $2\frac{3}{5}\%$  Loss (d) No profit no loss  
(e)  $1\frac{3}{5}\%$  Profit
85. Jay wants to cross a river and reach a point opposite to where he is now on other side of river. He needs to travel north but flow of river is in west direction. Jay's boat speed is 5 km/hr and stream speed is 4 km/hr. River is 15 km wide. Find the time to reach the point where he intends to reach if he walks at the speed of 2 km/hr after reaching shore on the other side (in hour)  
(a) 9 (b) 6  
(c) 3 (d) 12  
(e) None of these
86. The sum of the ages of 6 members of a family 4 years ago was 112 years. Today, when the daughter has been married off and replaced by a daughter-in-law, the sum of their ages is 98. Assuming that there has been no other change in the family structure and all the people are alive, what is the difference in the age of the daughter and the daughter-in-law?  
(a) 30 years (b) 34 years  
(c) 27 years (d) 38 years  
(e) None of these
87. Dev invested ₹ 50000 in gold for the whole year. After 5 months of Dev his sister joined him and at invested ₹ 60000. Next year Dev invested ₹ 10000 more and his sister withdrew ₹ 5000 and at the end of two years profit earned by Dev is ₹ 42000. Find the total profit earned if they distributed half of the total profit equally and rest in the capital ratio.  
(a) ₹ 90,000 (b) ₹ 64,000  
(c) ₹ 80,000 (d) ₹ 75,000  
(e) None of these
88. In a company, bottles are manufactured, out of which some are defected. Bottles are packed in a box. Three bottles are picked from box by inspector, if two of the bottles out of three are perfect, box passes otherwise it fails. Find the probability of box getting passed.  
(a)  $\frac{1}{4}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{3}$  (d)  $\frac{2}{3}$   
(e) None of these
89. Mohan is having two varieties of sugar. First variety of sugar costing ₹ 25 per kg while second variety of sugar is



₹ 32 per kg. Find how much quantity of 1st variety should he added to 30 kg of 2nd variety such that the cost of the mixture of both varieties be worth ₹ 27 per kg?

- (a) 75 kg (b) 72 kg  
(c) 76 kg (d) 70 kg  
(e) None of these
90. A piece of work is completed by 3 boys and 4 girls in 7 days. The same piece of work is completed by 5 boys and 3 girls in 6 days. Find the time taken by 1 boy and 2 girls to complete the 4 times of the same work?
- (a) 58 days (b) 69 days  
(c) 60 days (d) 66 days  
(e) None of these

**DIRECTIONS (Qs. 91- 95):** Read the following table carefully and answer the given questions :

The following table shows No. of hours per day, No. of Days in Total, No. of Days on leave, Income of three persons J, K and L.

|   | No. of hours per day | No. of working Days | No. of Days on leave | Income |
|---|----------------------|---------------------|----------------------|--------|
| J | z                    | 48                  | b                    | —      |
| K | y                    | x                   | 7                    | —      |
| L | 8                    | a                   | 14                   | —      |

- (a) Work has been done in May(31) and June(30), total days = 61 days  
(b) Wages rate for per hour on a working day is ₹ 500  
(c) Wage rate for Non-working Day is ₹ 1500  
(d) Assuming either the work is completed in a given period of time or no work has been done i.e. on Idle day.
91. Find the income earned by L.  
(a) 209000 (b) 220000  
(c) 188000 (d) 216000  
(e) None of these
92. If the number of working hours per days for J is 6, find the income of J (in ₹).  
(a) 144000 (b) 163500  
(c) 154300 (d) 300000  
(e) None of these
93. Find the number of working hours per day for J, If Income of J is ₹ 259500.  
(a) 7 (b) 8 (c) 10 (d) 9  
(e) None of these
94. If a new person is M, and his working days are equal to leave days of L and working hours are 4 more than working hours of L, then find the Income of M (in ₹).  
(a) 254500 (b) 203000  
(c) 153000 (d) 154500  
(e) None of these
95. For K, If the sum of values of x and y is equal to 60, then Find the Income of K (in ₹).  
(a) 259500 (b) 172500  
(c) 154500 (d) 216500  
(e) None of these

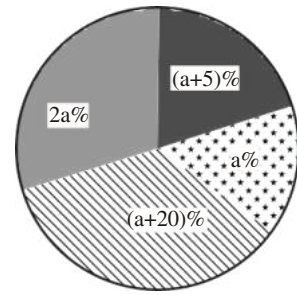
**DIRECTIONS (Qs. 96-100):** Study the chart carefully and the questions that follow.

The pie charts show the distribution of the total number of books sold by book store P, Q, R and S the distribution of Maths book sold by book store P, Q, R and S respectively. Also, Total books = Maths books + Physics books.

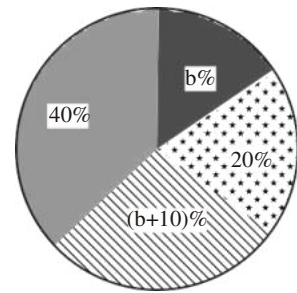
Number of Physics books sold by P = 110

Number of Physics books sold by Q = 30

Total Books



Maths Books



96. The total number of physics books sold by all book store together is approximate how much percentage more or less than the total number of maths books sold by all the book store together?  
(a) 60% (b) 41.41%  
(c) 50% (d) 11.33%  
(e) None of these
97. Physics book sold by S is approximate what percent of maths books sold by Q and S together?  
(a) 16.67% (b) 8.67%  
(c) 7.25% (d) 11.33%  
(e) None of these
98. What is the ratio of Maths books sold by book store R to the total books sold by S?  
(a) 2 : 3 (b) 1 : 2  
(c) 3 : 2 (d) 2 : 1  
(e) None of these
99. If P sold (x + 15) Maths books and Q sold (y - 25) maths books, then what the ratio of x : y?  
(a) 29 : 15 (b) 16 : 31  
(c) 31 : 16 (d) 15 : 29  
(e) None of these

100. Total books sold by P and Q together is how much percentage more than the physics books sold by R?  
 (a) 48% (b) 72% (c) 50% (d) 60%  
 (e) None of these

### English Language

**DIRECTIONS (Qs. 101-107):** Read the passage and answer the questions that follow:

The government has announced a list of 'Institutes of Eminence' (IoE) among India's institutions of higher education. This was awaited for the simple reason that finding a place on it would save an educational institution from the clutches of a dreaded regulator. Regulators are meant to ensure that we have a socially desirable outcome, but in the case of higher education in India the opposite seems to have been the case. The University Grants Commission (UGC) has over half a century micro-managed this space to an unimaginable level of silliness. The result has been publicly-funded universities that are cavernous wastes, shattering the aspirations of our youth and producing low-level 'knowledge'. Evidence of the role of India's higher-education regulator may be seen in the feature that the few instances when this is not the case the institutions have enjoyed privilege that leaves them protected from its depredations.

The latest offering is in the form of a proposed Higher Education Commission of India (HECI). The intention is to leave the HECI to focus on quality while leaving funding of public institutions to the Ministry of Human Resource Development (MHRD). Even as we observe the progress of the HECI and wonder if it is going to be any more than old wine in a new bottle, we have already have an inkling of what could go wrong. This springs from the government's announcement of a list of IoEs. The government has chosen three public and three private institutions for this status. The public institutions are the Indian Institute of Science, Bengaluru, and the Indian Institutes of Technology at Delhi and Mumbai. The private ones are the Birla Institute of Technology and Science Pilani, the JIO Institute and the Manipal Academy of Higher Education. This list suffers from a serious lack of credibility. Where in it are the universities of India? We understand that the government's aim is to rectify the low presence of Indian institutions in the global rankings of universities.

While the early European universities may have started as academies of the arts they were soon to have medicine and astronomy as areas that they pursued with vigour. Somewhere along the line we seem to have lost this breadth and come to revel in a landscape dominated by engineering schools. These engineering schools, notably the IITs, have done us proud but cannot be equated with the great universities of the world for the simple reason that they are focussed on a narrow domain. Also, if the idea behind IoEs is that they will be left alone and given enhanced financial support, it must be acknowledged that until very recently the IITs have not been meddled with neither have they been starved of resources. The IISc is of course broader than the IITs but does not embrace the social sciences and the humanities, the presence of which would be considered necessary for an university.

If a list of eminent institutions in the country is at all needed, the absence of the Jawaharlal Nehru University (JNU) from the first list of IoEs is striking. Its faculty has brought many of the world's leading ideas to Indian students and in at least area came close to building a new school of thought, however controversial. It is not as if similar efforts in the social sciences have not occurred elsewhere in India but JNU has perhaps sustained its reputation as a university for longer. It already had schools of Computer Science and the Life Sciences over four decades ago when these were fledgling disciplines giving it a certain breadth early on. Even as we may wonder at the exclusion of JNU from the list of IoEs released by the government one might wonder at how the private institutions that are on it made the cut. While BITS Pilani may have made a significant contribution to the country at a time when it desperately needed engineers, but is yet not what may be considered a university, the presence of the two others on the list leave one nonplussed. One of them, we are told, has been conferred the status on grounds of its promise, a dubious position to take as this institute has little to show except for the financial heft that will surely undergird it. The other is known largely for its association with the practice of charging capitation fees for education.

101. As per your understanding of the passage studied above, what can be some reasons for lack of quality in higher education?
- State universities recruited a lot of faculty members on contract basis who have little incentive to perform.
  - Public universities are insulated from political pressure.
  - The amount spent on research is very less as compared to foreign Institutions.
- (a) Only I (b) Only II  
 (c) Only I and III (d) Only II and III  
 (e) All of the above
102. Which of the following is/are true as per the passage?
- Among countries with a comparable research output, India with 0.8% R&D spending trails Russia, Brazil, South Korea and even Singapore, according to Unesco data.
  - HECI would focus on funding while quality would be regulated by the Ministry of Human Resource Development.
  - The Institution of Eminence (IoE) status has been given to six institutes, three each from the public and private sectors.
- (a) Only I (b) Only III  
 (c) Only I and II (d) Only II and III  
 (e) None of the above
103. Which of the following best describes the tone of the author in paragraph 1?
- (a) Euphoric (b) Castigating  
 (c) Deploring (d) Lamenting  
 (e) None of the above
104. What could be a/some result/s of the function of funding of public institutions being left to the Ministry of Human Resource Development instead of HECI?
- The government may use its discretion to reward institutions according to its ideological predilections.

- II. The Institutions may be forced to comply with even some dubious rules setup by the government.
- III. The government can be made accountable for attaining excellence in education.
- (a) Only II (b) Only I and II  
(c) Only II and III (d) Only I and III  
(e) All of the above
105. Which of the following may be inferred from paragraph 3?
- I. Universities should embody knowledge across a wide range of disciplines.
- II. There is an emphasis on a depth of knowledge across a broad horizon in Indian Universities today.
- III. In India, a lot of focus is given to Institutions which are focused on only few areas.
- (a) Only I (b) Only III  
(c) Only II and III (d) Only I and III  
(e) All of the above
106. Which of the following may strengthen the argument for putting the Jawaharlal Nehru University in the list of IoEs?
- I. If there is an Indian institution that engages as an equal in the global commons it is JNU.
- II. Research from JNU has adapted and contested ideas floating in the global pool of knowledge ranging from history to economics.
- III. If the criterion of engagement with the global field of ideas is accepted JNU would count as one among India's eminent educational institutions.
- (a) Only I (b) Only III  
(c) Only I and II (d) Only II and III  
(e) All of the above
107. What best describes the central idea of the passage?
- (a) The government's approach to higher education reflects a short-sightedness due to the social sciences and the humanities being ignored.
- (b) The IoE list is a good start and can be modified going forward by adding more institutions that focus on some disciplines.
- (c) Eminence is not usually understood in terms of money but certain exceptions can be made.
- (d) Two previous governments have in the past decade tried to revamp the regulatory environment for higher education.
- (e) None of the above

**DIRECTIONS (Qs. 108-115):** Read the passage carefully and answer the questions given beside.

The world population is living, working, vacationing, increasingly conglomerating along the coasts, and standing on the front row of the greatest, most unprecedented, plastic waste tide ever faced.

Washed out on our coasts in obvious and clearly visible form, the plastic pollution spectacle blatantly unveiling on our beaches is only the **prelude** of the greater story that unfolded further away in the world's oceans, yet mostly originating from where we stand: the land.

For more than 50 years, global production and consumption of plastics have continued to rise. An estimated 299 million tons of plastics were produced in 2013, representing a 4 percent increase

over 2012, and confirming an upward trend over the past years. In 2008, our global plastic consumption worldwide has been estimated at 260 million tons, and, according to a 2012 report by Global Industry Analysts, plastic consumption is to reach 297.5 million tons by the end of 2015.

Plastic is versatile, lightweight, flexible, moisture resistant, strong, and relatively inexpensive. Those are the attractive qualities that lead us, around the world, to such a voracious appetite and over-consumption of plastic goods. However, durable and very slow to degrade, plastic materials that are used in the production of so many products all, ultimately, become waste with staying power. Our tremendous attraction to plastic, coupled with an undeniable behavioural **propensity** of increasingly over-consuming, discarding, littering and thus polluting, has become a combination of lethal nature.

A simple walk on any beach, anywhere, and the plastic waste spectacle is present. All over the world, the statistics are ever growing, **staggeringly**. Tons of plastic debris (which by definition are waste that can vary in size from large containers, fishing nets to microscopic plastic pellets or even particles) is discarded every year, everywhere, polluting lands, rivers, coasts, beaches, and oceans.

Published in the journal Science in February 2015, a study conducted by a scientific working group at UC Santa Barbara's National Center for Ecological Analysis and Synthesis (NCEAS), quantified the input of plastic waste from land into the ocean. The results: every year, 8 million metric tons of plastic end up in our oceans. It's equivalent to five grocery bags filled with plastic for every foot of coastline in the world. In 2025, the annual input is estimated to be about twice greater, or 10 bags full of plastic per foot of coastline. So the cumulative input for 2025 would be nearly 20 times the 8 million metric tons estimate - 100 bags of plastic per foot of coastline in the world!

108. As per the passage, which of the following statements are true?
- Most of the plastic present in the ocean today has originated from the land.
  - In recent years, the production of plastics has declined.
  - Plastic pollution is present on almost every beach.
- (a) Only 1 (b) Only 2  
(c) Only 1 and 3 (d) All 1, 2 and 3  
(e) None of 1, 2 and 3
109. Which of the following is not the quality of plastic?
- (a) Cheap (b) Moisture Resistant  
(c) Brittle (d) Lightweight  
(e) Flexible.
110. Which of the following statements are false according to the passage?
- There is a 4 percent increase in the production of plastics in 2013, over 2012.
  - The production of plastics in 2012 is approximately 299 million tons.
  - According to the Global Industry Experts, plastic consumption is to reach 297.5 million tons by the end of 2015.
- (a) Only 1 (b) Only 2  
(c) Only 2 and 3 (d) Only 1 and 2  
(e) Only 3

111. Which organisation has quantified the input of plastic waste from land into the ocean? As mentioned in the passage.  
 (a) UC Santa Barbara's National Center for Ecological Analysis and Synthesis  
 (b) Global Industry Analysts  
 (c) Kano State Environmental Planning and Protection Agency  
 (d) Foundation for Environmental Education  
 (e) None of the above given options
112. According to the author, What can be the reason behind the plastic pollution.  
 1. Plastic is cheaply available and that lead to the overconsumption.  
 2. Plastic does not degrade easily thus it ended up being a pollutant.  
 3. There is no policy to curb plastic pollution.  
 (a) Only 1 (b) Only 2  
 (c) Only 3 (d) Only 1 and 2  
 (e) All 1, 2 and 3
113. Which of the following word is the synonym of the given word?  
 Propensity  
 (a) Tendency (b) Dislike  
 (c) Inadequate (d) Antipathy  
 (e) None of the above.
114. Which of the following word is the synonym of the given word  
**Staggeringly**  
 (a) Predictable (b) Startling  
 (c) Ordinary (d) Unremarkable  
 (e) Unexceptional
115. Which of the following word is the antonym of the given word?  
 Prelude  
 (a) Preface (b) Prologue  
 (c) Conclusion (d) Preamble  
 (e) None of the above

**DIRECTIONS (Qs. 116-120):** A sentence is given below with three words highlighted in bold. Select the option that gives the correct set of words. In case the sentence is correct, select 'No replacement required'.

116. While stressing the role of investment in restored the economy the Economic Survey also states that the twin balance sheet issue has to be undertake on an urgent basis.  
 (a) Highlighting, slowing, tackled  
 (b) emphasizing, stimulating, addressed  
 (c) shouting, excited, focused  
 (d) Assuaging, invigorating, overlooked  
 (e) No replacement required
117. The **concept** of financial inclusion, **special** in developing markets, has always met with challenges **relating** to accessibility and affordability.  
 (a) Inspired, commonly, connect  
 (b) Thought, peculiar, belonging  
 (c) Idea, particularly, pertaining  
 (d) Notion, heed, relevant  
 (e) No replacement required
118. Public expenditure that **produces** public assets has a higher and more **continuous** growth multiplier **set** to the public consumption expenditure multiplier because it maintains demand and also reduces costs.  
 (a) building, laidback, comparison  
 (b) creates, persistent, compared  
 (c) furnishing, broken, correlation  
 (d) Consume, eternal, distinguished  
 (e) No replacement required
119. While it is **acknowledged** that Electric Vehicles contribute to improving urban air quality, the government policy should take into account the life-cycle impact of the product and be **agnostic** to the **underlying** technology.  
 (a) Ascertained, indifferent, overtures  
 (b) Debated, enchanted, built  
 (c) Developed, believer, patented  
 (d) Supported, atheist, seeming  
 (e) No replacement required
120. The **blasts** in emerging markets is hardly surprising as the tightening of monetary policy in the U.S. Federal Reserve has **conventional** caused the turning of the global credit cycle.  
 (a) complacency, for, typically  
 (b) chaos, of, newly  
 (c) turbulence, by, traditionally  
 (d) roil, with, always  
 (e) No improvement required

**DIRECTIONS (Qs. 121-125):** Answer the following questions after rearranging the following sentences into a coherent paragraph and identify the sentence that doesn't fit into the context of the paragraph.

- (A) What is apparent from this paper is that the NHA sees the nascent state of digitization of our healthcare system as an opportunity to learn from the experiences of other countries that are much further down this road.
- (B) The National Digital Health Mission recently released a Strategy Overview document that laid out, in broad strokes, the National Health Authority's plan to build India into a Digital Health Nation.
- (C) At the outset, it is good to see that the NHA has decided to adapt and extend India's novel data portability architecture to facilitate transfers across the digital health ecosystem.
- (D) While this allows us to avoid the mistakes that other countries have made, the sheer scale of what the document attempts to deliver seems too vast for what is possible for us to achieve.
- (E) Care delivery systems looking to make meaningful impact through data face a number of challenges, the most critical one is collecting data from various sources
- (F) However, the technological scaffolding on which this portability will be implemented is contained in the Data Empowerment and Protection Architecture, a framework that is already being used for the sharing of financial information through the central bank's account aggregator framework.
- (G) The regulatory basis for India's unique brand of data portability is set out in the draft Personal Data Protection Bill.



121. Considering statement (B) as the first sentence of the rearranged paragraph, which of the following statement should be last sentence after the rearrangement? (excluding the incoherent sentence)  
(a) A (b) E (c) B (d) F (e) D
122. Considering statement (B) as the first sentence of the rearranged paragraph, which of the following statement should be FOURTH sentence after the rearrangement? (excluding the incoherent sentence)  
(a) A (b) D (c) B (d) G (e) C
123. Considering statement (B) as the first sentence of the rearranged paragraph, then which one among the following will be the PENULTIMATE sentence?  
(A) What is apparent from this paper is that the NHA sees the nascent state of digitization of our healthcare system as an opportunity to learn from the experiences of other countries that are much further down this road.  
(B) However, the technological scaffolding on which this portability will be implemented is contained in the Data Empowerment and Protection Architecture, a framework that is already being used for the sharing of financial information through the central bank's account aggregator framework.  
(C) The regulatory basis for India's unique brand of data portability is set out in the draft Personal Data Protection Bill.  
(D) Either (a) or (c)  
(E) None of the above
124. Considering statement (B) as the first sentence of the rearranged paragraph, then which among the following fails to become the part of the coherent paragraph?  
(a) A (b) B (c) D (d) F (e) E
125. Choose the most logical order of sentences among the given choices to construct a coherent paragraph.  
(A) The Reserve Bank of India did not extend the moratorium in its monetary policy review on Thursday.  
(B) It allowed banks to restructure the loans of borrowers who are in financial difficulty and are unable to repay them.  
(C) This means that the lenders won't report the borrower as a defaulter to credit bureaus if the borrower follows the new payment structure.  
(D) In his speech, RBI governor said, "The disruptions caused by COVID-19 have led to heightened financial stress for borrowers across the board.  
(E) Once restructured, such loans would be considered as standard.  
(a) ABCDE (b) ACBDE  
(c) ABECD (d) ACDBE  
(e) ABDCE
126. Mr.Tharoor's~~urbanmannerscharmfriends~~andenemiesalike.  
(a) urban manners charming friends  
(b) urbane manners charming friends  
(c) urban mannerisms charm friends  
(d) urbane manners charm friends  
(e) No correction required
127. Religious **bigots look away on** anyone who does not conform to their beliefs.  
(a) bigots look away on  
(b) bigots look down on  
(c) bigots look behind on  
(d) bigots look in front of  
(e) No correction required
128. **Having leisure till outdoor** activities such as taking a stroll down the park has become a rarity in this fast-paced life.  
(a) Having leisuress till outdoor  
(b) Having laziness for outdoor  
(c) Having leisure in outdoor  
(d) Having leisure for outdoor  
(e) No correction required
129. The Punjab National Bank fraud **demonstrates the extent of** operational and risk management failures in PSBs.  
(a) demonstrateing the extent of  
(b) demonstrates the extent in  
(c) demonstrates the extent with  
(d) demonstrates the extention of  
(e) No correction required

**DIRECTIONS (Qs. 130-133):** Replace the words if needed and choose option 5 if no replacement is required.

130. Under the affluence of the anticipated cyclone, light to moderate rain is likely to commend over Kerala at a few places on Sunday.  
I. Affluence - influence  
II. Anticipated - antecedent  
III. Commend - Commence  
(a) Only (II) (b) Both (I) and (II)  
(c) Both (I) and (III) (d) Only (III)  
(e) None of these
131. While Karthik is interested in pondering engineering, he is also infused about the pure sciences which shows that he has varied interests.  
I. Pondering - pursuing  
II. Infused - enthused  
III. Varied - dissimilar  
(a) Both (I) and (II) (b) Both (I) and (III)  
(c) (I), (II) and (III) (d) Only (I)  
(e) None of these
132. With nearly 10 million people construed to die annually from resistant infections by 2050, health-care costs and the cost of food production will spike, while income inequality will lengthen.  
I. Construed - Analysed  
II. Spike - snap  
III. Lengthen - widen  
(a) Only (III) (b) Only (I)  
(c) Both (I) and (III) (d) Both (I) and (II)  
(e) None of these

**DIRECTIONS (Qs. 126-129):** In each question, a part of the sentence is made bold. Below are given alternatives to the bold part at (A), (B), (C) and (D) which may improve the sentence. Choose the correct alternative. In case no replacement is needed, mark (E) as your answer.



133. The positive April GST numbers have come as a surprise to many experts, given the lacklustre economic activity witnessed across many sectors in recent months, which should normally have impacted tax collections adversely.
- Surprise - Panache
  - Lacklustre - sheen
  - Adversely - evasively
- (a) Both (II) and (III) (b) Both (I) and (III)  
(c) Both (I) and (II) (d) (I), (II) and (III)  
(e) None of these

**DIRECTIONS (Qs. 134-137):** In the question below, a sentence is given with two blanks, that indicate that some parts are missing. Identify the correct pair of words that fit in the sentence to make it grammatically and contextually correct.

134. Being near running water and good shade, the explorers \_\_\_\_\_ it was a good \_\_\_\_\_ for setting up camp.
- Aimed, place
  - Decided, locale
  - Concluded, location
- (a) Only 3 (b) Only 1 and 2  
(c) Only 1 and 3 (d) Only 2 and 3  
(e) All 1, 2 and 3
135. The Indian government has \_\_\_\_\_ a broader strategy that is specifically \_\_\_\_\_ on increasing foreign investment.
- launched, focused
  - formulated, centred
  - established, targeted
- (a) Only 3 (b) Only 1 and 2  
(c) Only 1 and 3 (d) Only 2 and 3  
(e) All 1, 2 and 3
136. Technological changes have \_\_\_\_\_ new job positions and also led to an increase in the \_\_\_\_\_ for new skills.
- produced, requirement
  - catered, descent
  - created, demand
- (a) Only 3 (b) Only 1 and 2  
(c) Only 1 and 3 (d) Only 2 and 3  
(e) All 1, 2 and 3
137. India's \_\_\_\_\_ as an education hub is the result of both economic changes and \_\_\_\_\_ efforts.
- Advent, significant
  - Rise, remarkable
  - Emergence, adequate
- (a) Only 3 (b) Only 1 and 2  
(c) Only 1 and 3 (d) Only 2 and 3  
(e) All 1, 2 and 3

**DIRECTIONS (Qs. 138-140):** In each question below, four words printed in bold type are given. These are numbered (A), (B), (C) and (D). One of these words printed in bold might be either wrongly spelt or inappropriate in the context of the sentence. Find out the word that is inappropriate or wrongly spelt, if any. The number of the word is your answer. If the words printed in bold are correctly spelt and appropriate in the context of the sentence then mark (E), i.e. 'All Correct', as your answer.

138. An **experienced** set of economic policymakers is leading the country back into the pre-1991 era; they may have a long **reign** in which to ruin the economy. The economy has collapsed under their **stewardship**; they have no idea how to revive it. But Ahluwalia is not one to give up; he has written an **epilogue** of advice on how to rescue it.
- (a) Experienced (b) Reign  
(c) Stewardship (d) Epilogue  
(e) All are correct
139. Over the months, Indian Navy **personnel** train the eight submariners and other Bangla **volunteers** to become underwater **saboteurs**. By mid-August, these trainees **infiltrate** East Pakistan from Meghalaya, Assam, Tripura and West Bengal to launch attacks against Pakistani shipping and dock facilities.
- (a) Personnel (b) Volunteers  
(c) Saboteurs (d) Infiltrate  
(e) Both (c) and (d)
140. From August till end-November, when **hostilities** ramp up into proper war, the naval comandos of the Mukti Bahini inflict serious damage to Pakistani shipping, impeding everything from international shipping and water-based supply routes to troop movement across the vast **riverine** terrain.
- (a) Hostilities (b) Comandos  
(c) Riverine (d) Both A and B  
(e) Both B and C

### General/Financial Awareness

141. What is the name of the proposed budget airline funded by Rakesh Jhunjhunwala?
- (a) Ektara Airline (b) Akanksha Airline  
(c) Akasa Airline (d) Velvet Airlines  
(e) None of the above
142. Pan India 'SUPACE' project is monitored and funded by which ministry that was launched by the chief justice of India, S A Bobde?
- (a) Ministry of Law and Justice  
(b) Ministry of Science and Technology  
(c) Ministry of Electronics and Information Technology  
(d) Ministry of Social Justice and Empowerment  
(e) None of the above
143. According to the All India Survey on Higher Education (AISHE) 2019-20 report, what is Gross Enrolment Ratio (GER) in higher education in India?
- (a) 22.1 per cent (b) 25.7 per cent  
(c) 26.5 per cent (d) 27.1 per cent  
(e) 28.3 per cent
144. Who stepped down as Managing Director (MD) of HCL Technologies Ltd?
- (a) Roshni Nadar (b) CVijayakumar  
(c) Shiv Nadar (d) Vineet Nayar  
(e) Anant Gupta
145. What does 'P' stand for in the TOP scheme?
- (a) PalmOil (b) Preservative  
(c) Post (d) Potato  
(e) Promotion

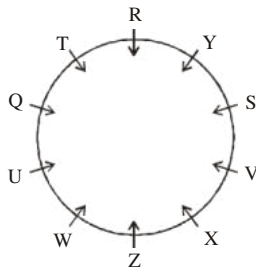
146. CREDAI is an apex body of which industry/ sector?  
(a) Tourism (b) Real estate  
(c) Information Technology (d) Hospitality  
(e) None of the above
147. Which bank has signed an agreement with Ola Electric for the largest long-term debt financing in the Indian EV industry?  
(a) Bank of India (b) Bank of Baroda  
(c) Punjab National Bank (d) Bank of Maharashtra  
(e) Canara Bank
148. N Rangaswamy from All India NR Congress took oath as chief minister of Puducherry for the \_\_\_\_\_.  
(a) first time (b) second time  
(c) third time (d) fourth time  
(e) None of the above
149. The government's stake in ITC Limited which is worth about Rs 20,250cr currently \_\_\_\_\_.  
(a) 6.43% (b) 7.93%  
(c) 8.33% (d) 10.43%  
(e) 15.53%
150. Which state has received a maximum Rural Infrastructure Development Fund (RIDF) in the last three years?  
(a) Haryana (b) Tamil Nadu  
(c) Odisha (d) Assam  
(e) Rajasthan
151. World's highest motorable road was inaugurated in Umling La in Eastern Ladakh at a height of \_\_\_\_\_, which connects Leh to the Pangong Lake.  
(a) 19,300 feet (b) 20,200 feet  
(c) 18,600 feet (d) 17,700 feet  
(e) 16,700 feet
152. What is the full form of DEAF?  
(a) Depositor Education Awareness Fund  
(b) Defence Education Awareness Fund  
(c) Development Education Awareness Fund  
(d) Developers Education Awareness Fund  
(e) None of the above
153. Which one is not a Fast-Moving Consumer Goods (FMCGs) company?  
(a) Hindustan Unilever Ltd (b) Zomato  
(c) ITC Ltd (d) Nestle India Ltd  
(e) Dabur India Ltd
154. What does 'P' stand for in TOP Scheme launched by Ministry of Youth Affairs and Sports?  
(a) Podium (b) Para  
(c) Performance (d) Pension  
(e) None of the above
155. Indian Ace Badminton player PV Sindhu won two Olympic medals in individual events, who also achieved the same feat?  
(a) Abhinav Bindra (b) Sushil Kumar  
(c) MC Mary Kom (d) Deepika Kumari  
(e) Geeta Phogat
156. The Hemis National Park is located in which state/UTs of India?  
(a) Ladakh (b) Haryana  
(c) Jammu and Kashmir (d) Madhya Pradesh  
(e) None of these
157. In which year Kailash Satyarthi was awarded the Nobel Peace Prize?  
(a) 2014 (b) 2015 (c) 2013 (d) 2012  
(e) 2016
158. Who is the current Chief Economic Advisor to the Government of India?  
(a) Arvind Subramanian (b) Surjeet Bhalla  
(c) K Subramanian (d) Amitabh Ghosh  
(e) None of the above/More than one of the above
159. The Reserve Bank of India (RBI) has decided to levy monetary charges of what amount on ATMs that run out of cash, starting 1 October, 2021?  
(a) Rs 2000 (b) Rs 5000  
(c) Rs 10000 (d) Rs 15000  
(e) Rs 20000
160. Which state will continue to sponsor Indian men's and women's national hockey teams for another 10 years, after the current sponsorship ends in 2023?  
(a) Andhra Pradesh (b) Haryana  
(c) Punjab (d) Odisha  
(e) Karnataka
161. World Red Cross And Red Crescent Day observed annually on \_\_\_\_\_.  
(a) 8th May (b) 9th May  
(c) 7th May (d) 6th May  
(e) 5th May
162. What is the revised overdraft limit under Pradhan Mantri Jan Dhan Yojana?  
(a) Rs 5,000 (b) Rs 20,000  
(c) Rs 10,000 (d) Rs 2,000  
(e) Rs 1,000
163. Who has been selected for the Nobel Peace Prize, 2020?  
(a) European Union (b) World Food Programme  
(c) Robert B Wilson (d) Paul R. Milgrom  
(e) None of the above/More than one of the above
164. Which Bank has launched a digital and contactless banking platform, especially for retail merchants named as 'Merchant Stack'?  
(a) HDFC Bank (b) Yes Bank  
(c) ICICI Bank (d) IndusInd Bank  
(e) Axis Bank
165. What is the rank of India in global hunger index 2020?  
(a) 107th (b) 110th (c) 95th (d) 94th  
(e) None of the above/more than one of the above
166. With which organisation, Intel has collaborated to launch the 'AI For All' initiative?  
(a) AICTE (b) NITI Aayog  
(c) CBSE (d) UGC  
(e) None of these
167. Which two Indian organisations have won the UNDP Equator Prize 2021?  
(a) Paramount Limited and Doshion Limited  
(b) Aadhimalai Pazhangudiyinar Producer Company Limited and Snehakunja Trust  
(c) ASM Company and Enviro Engineer Pvt Ltd.  
(d) Excel Enviro Services and GreenTek Indika  
(e) None of these
168. Which country will host the inaugural International Hockey Federation (FIH) Hockey5s World Cup?  
(a) Indonesia (b) South Korea  
(c) Oman (d) UAE  
(e) Japan

169. Which fertilizer manufacturing company has introduced the world's first Nano Urea Liquid for farmers?  
(a) Brahmaputra Valley Fertilizer Corporation Ltd  
(b) Chambal Fertilisers and Chemicals Ltd.  
(c) Hindalco Industries Ltd.  
(d) Greenstar Fertilizers Ltd  
(e) Indian Farmers Fertiliser Cooperative Ltd
170. What is the motto of the 2020 Tokyo Olympics?  
(a) Come Share  
(b) "Faster, Higher, Stronger - Together".  
(c) Inspire a Generation  
(d) Connected by Emotion  
(e) None of the above/More than one of the above
171. Along with Jio Platform which company have figured in Time Magazine's first-ever list of 100 Most Influential Companies?  
(a) Byju's (b) Swiggy  
(c) Big Basket (d) ReNew Power  
(e) One97
172. What is India's rank in the 'Climate Change Performance Index (CCPI) 2021'?  
(a) 6th (b) 7th (c) 8th (d) 9th  
(e) 10th
173. India was elected to the Economic and Social Council (ECOSOC), one of the 6 main organs of the United Nations, for the-\_\_\_\_\_term.  
(a) 2021-22 (b) 2022-25  
(c) 2025-28 (d) 2022-24  
(e) 2022-26
174. SBI has launched NETC- SBI FASTag. What does N stands for in NETC?  
(a) Network (b) National  
(c) Numbered (d) Nominal  
(e) None of the above
175. Pandit Jasraj was associated with which field?  
(a) Literature (b) Vocal Music  
(c) Kathak (d) Painting  
(e) None of the above
176. Which country has agreed to cooperate with the European Union on Energy Security?  
(a) USA (b) Australia  
(c) India (d) Japan  
(e) China
177. Where is Indravati Tiger Reserve located?  
(a) Karnataka (b) Chhattisgarh  
(c) Bihar (d) West Bengal  
(e) Madhya Pradesh
178. What is the name of the Indian Navy's indigenous stealth destroyer, whose maiden sea trials was conducted recently?  
(a) Mormugao (b) Kalinga  
(c) Ashoka (d) Kalvari  
(e) Vikrant
179. Which organisation released the 'State of the world's land and water resources for food and agriculture (SOLAW 2021) report?  
(a) IMF (b) FAO (c) World Bank (d) WEF  
(e) None of the above
180. Which institution released the "Tracking Universal Coverage - 2021 Global Monitoring Report"?  
(a) WTO (b) WHO (c) FAO (d) WEF  
(e) None of the above
181. "bob World Wave", launched by Bank of Baroda (BoB) is a.....  
(a) Global Debit Card (b) Wearable Device  
(c) AI Chatbot (d) Investment Platform  
(e) None of the above
182. Which country is set to host the first tribal nations' summit since 2016?  
(a) India (b) USA (c) Japan (d) Russia  
(e) None of the above
183. Which state has approved 'Kaiser-i-Hind' as the State butterfly?  
(a) Assam (b) Sikkim  
(c) Arunachal Pradesh (d) Odisha  
(e) None of the above
184. India signed a MoU with which country to exchange information in the field of public sector audit?  
(a) Sri Lanka (b) Switzerland  
(c) Maldives (d) Cayman Islands  
(e) None of the above
185. Which global bloc has entered into an agreement cross-border data use and digital trade?  
(a) G-20 (b) G-7 (c) ASEAN (d) BRICS  
(e) ASEM
186. Which organization releases the All-India Consumer Price Index?  
(a) NITI Aayog  
(b) National Statistical Office  
(c) Centre for Agriculture costs and prices  
(d) Ministry of Finance  
(e) None of the above
187. A working group of IRDAI has proposed to reintroduce ILIP. What is its expansion?  
(a) Interest- linked Insurance Policy  
(b) Inflation- linked Insurance Policy  
(c) Index- linked Insurance Policy  
(d) Investment- linked Insurance Policy  
(e) None of the above
188. Which Union Ministry announces the Index of Industrial Production (IIP)?  
(a) Ministry of Statistics and Programme Implementation  
(b) Ministry of Finance  
(c) Ministry of Corporate Affairs  
(d) Ministry of Heavy Industries  
(e) None of the above
189. What per cent of India's exports is contributed by MSMEs, approximately?  
(a) 30 (b) 40 (c) 50 (d) 60  
(e) 70
190. Shavkat Mirziyoyev has been re-elected as the President of which country?  
(a) Afghanistan (b) Uzbekistan  
(c) Syria (d) Maldives  
(e) Mauritius

| ANSWER KEY |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1          | (b) | 21 | (a) | 41 | (b) | 61 | (c) | 81  | (e) | 101 | (c) | 121 | (d) | 141 | (c) | 161 | (a) | 181 | (b) |
| 2          | (a) | 22 | (d) | 42 | (c) | 62 | (a) | 82  | (b) | 102 | (b) | 122 | (e) | 142 | (a) | 162 | (c) | 182 | (b) |
| 3          | (e) | 23 | (b) | 43 | (c) | 63 | (b) | 83  | (e) | 103 | (c) | 123 | (c) | 143 | (d) | 163 | (b) | 183 | (c) |
| 4          | (c) | 24 | (c) | 44 | (e) | 64 | (d) | 84  | (b) | 104 | (b) | 124 | (e) | 144 | (c) | 164 | (c) | 184 | (c) |
| 5          | (d) | 25 | (d) | 45 | (c) | 65 | (b) | 85  | (a) | 105 | (d) | 125 | (c) | 145 | (d) | 165 | (d) | 185 | (b) |
| 6          | (e) | 26 | (b) | 46 | (c) | 66 | (a) | 86  | (d) | 106 | (e) | 126 | (d) | 146 | (b) | 166 | (c) | 186 | (b) |
| 7          | (d) | 27 | (b) | 47 | (b) | 67 | (c) | 87  | (c) | 107 | (a) | 127 | (b) | 147 | (b) | 167 | (b) | 187 | (c) |
| 8          | (c) | 28 | (b) | 48 | (d) | 68 | (d) | 88  | (b) | 108 | (c) | 128 | (d) | 148 | (d) | 168 | (c) | 188 | (a) |
| 9          | (c) | 29 | (a) | 49 | (d) | 69 | (a) | 89  | (a) | 109 | (c) | 129 | (e) | 149 | (b) | 169 | (e) | 189 | (b) |
| 10         | (b) | 30 | (d) | 50 | (c) | 70 | (a) | 90  | (d) | 110 | (c) | 130 | (d) | 150 | (c) | 170 | (b) | 190 | (b) |
| 11         | (e) | 31 | (e) | 51 | (d) | 71 | (c) | 91  | (a) | 111 | (a) | 131 | (a) | 151 | (a) | 171 | (a) |     |     |
| 12         | (b) | 32 | (a) | 52 | (c) | 72 | (b) | 92  | (b) | 112 | (d) | 132 | (a) | 152 | (a) | 172 | (e) |     |     |
| 13         | (b) | 33 | (c) | 53 | (b) | 73 | (d) | 93  | (c) | 113 | (a) | 133 | (e) | 153 | (b) | 173 | (d) |     |     |
| 14         | (c) | 34 | (c) | 54 | (e) | 74 | (c) | 94  | (d) | 114 | (b) | 134 | (d) | 154 | (a) | 174 | (b) |     |     |
| 15         | (a) | 35 | (e) | 55 | (d) | 75 | (b) | 95  | (d) | 115 | (c) | 135 | (b) | 155 | (b) | 175 | (b) |     |     |
| 16         | (d) | 36 | (e) | 56 | (c) | 76 | (b) | 96  | (e) | 116 | (b) | 136 | (c) | 156 | (a) | 176 | (a) |     |     |
| 17         | (e) | 37 | (c) | 57 | (d) | 77 | (d) | 97  | (a) | 117 | (c) | 137 | (d) | 157 | (a) | 177 | (b) |     |     |
| 18         | (a) | 38 | (c) | 58 | (b) | 78 | (c) | 98  | (b) | 118 | (b) | 138 | (c) | 158 | (c) | 178 | (a) |     |     |
| 19         | (d) | 39 | (c) | 59 | (d) | 79 | (e) | 99  | (d) | 119 | (e) | 139 | (e) | 159 | (c) | 179 | (b) |     |     |
| 20         | (c) | 40 | (c) | 60 | (e) | 80 | (c) | 100 | (e) | 120 | (c) | 140 | (b) | 160 | (d) | 180 | (b) |     |     |

## ANSWERS & EXPLANATIONS

Sol. (1-5) :



- (b) Three persons sit between X and R, when counted from right of X.
- (a) U sits fourth left of V.
- (e) Q sits near of U and T.
- (c) Six persons sit between W and T, when counted to the right of W.
- (d) T sits third right of S.

Sol. (6 - 10)

**Logic:-** In every step, two numbers are changing their positions. In input, lowest number is 15, and is added by 1 and getting placed at extreme left end. Similarly, the second lowest number, which is 28 is also getting increased by 1 and is getting placed at extreme right end of the input to give us step I.

In step II, the 3rd lowest number among all is first increased by 1 and is placed at the extreme left end of step II and so is the case with the 4<sup>th</sup> lowest number.

And the same process continues till we get the numbers arranged in similar way.

Input: 88 59 28 94 37 75 15 64 71 48

Step I: 16 88 59 94 37 75 64 71 48 29

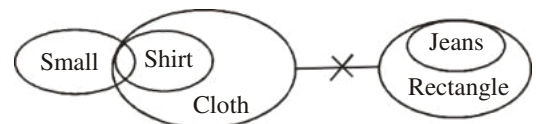
Step II: 38 16 88 59 94 75 64 71 29 49

Step III: 60 38 16 88 94 75 71 29 49 65

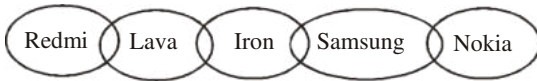
Step IV: 72 60 38 16 88 94 29 49 65 76

Step V: 89 72 60 38 16 29 49 65 76 95

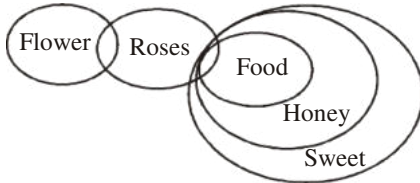
- (e) More than four.
- (d) 49 is 7<sup>th</sup> from left end in step 5.
- (c) The position of '88' from right end is sixth in 2<sup>nd</sup> last step.
- (c) Two numbers are there between 72 and 16 in step 5.
- (b) '38' is 5th to left of '49' in step 4.
- (e) All follow.



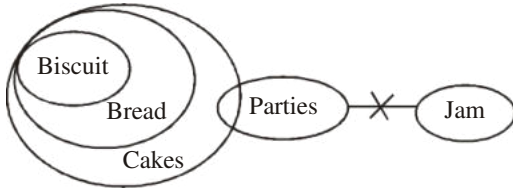
12. (b) Only I follows.



13. (b) Only conclusion I is true.

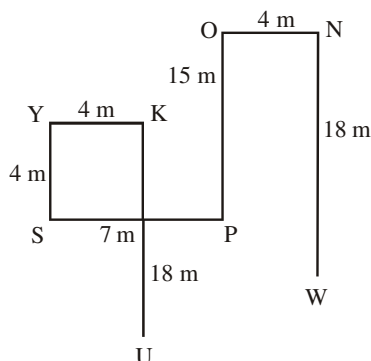


14. (c) Only II and III follow.



15. (a) Only III conclusion is true.  
As, per the given statement, we have;  
 $N \geq W \leq Q$ ;  $U < P = G$ ;  $G \geq Q > K$ ;  $W > C$ ;  $D \leq U$   
(i)  $U @ W$  (False) (ii)  $Q \# D$  (False)  
(iii)  $N \times C$  (False)
16. (d) Only II conclusion is true.  
As, per the given Statements, we have;  
 $N \geq W \leq Q$ ;  $U < P = G$ ;  $G \geq Q > K$ ;  $W > C$ ;  $D \leq U$   
(i)  $Q @ D$  (False) (ii)  $K \& P$  (True)  
(iii)  $C @ Q$  (True)
17. (e) None of the above conclusion is true.  
As, per the given statements, we have;  
 $N \geq W \leq Q$ ;  $U < P = G$ ;  $G \geq Q > K$ ;  $W > C$ ;  $D \leq U$   
(i)  $D \times N$  (False) (ii)  $P @ N$  (False)  
(iii)  $C \$ K$  (False)
18. (a) Only conclusion I is True.  
As, per the given statements, we have;  
 $N \geq W \leq Q$ ;  $U < P = G$ ;  $G \geq Q > K$ ;  $W > C$ ;  $D \leq U$   
(i)  $P \times W$  (True) (ii)  $D @ G$  (False)  
(iii)  $K \# U$  (False)

Sol. (19 - 23)



19. (d) Point N is in northarst of K.
20. (c) Distance between point K and U is 18m.
21. (a) Shortest distance between (Y, S) = 4m  
Shortest distance between (P, W) =  $\sqrt{4^2 + 3^2}$   
 $= \sqrt{16 + 9} = \sqrt{25} = 5 \text{ m}$   
 $\therefore$  The sum of shortest distance between line (Y, S) and line (P, W) is  $(4 + 5) \text{ m} = 9 \text{ m}$ .
22. (d) Point S is in southwest of point O.
23. (b) Difference of shortest distance between (S, P) and (O, P) =  $(15 - 7) \text{ m} = 8 \text{ m}$ .
24. (c) Only Option (c) satisfies the condition for selecting Admin Executive in an organization.
25. (d) Only I and III follow  
For students to get admission, there should be a sufficient number of colleges.  
A decrease in number of schools will not solve the problem. Vocational courses need to be conducted by the schools for the students who can prepare to get employed after completing school education.
26. (b) Only II follows  
Imposing a limit on the manufacturing of vehicles across the country is not a immediate and valuable solution to the problem of air pollution.  
Inspite of imposition, Awareness programs should be conducted and people should be encouraged to pool vehicles.
27. (b) Only conclusion II follows.  
- It is not evident from the fact that the population of developing countries will not continue to increase in future it may or not increase.  
- With increasing population and deputing resources, it will be definitely difficult for the government of developing countries to provide its people decent quality of life.
28. (b) Only II follows.  
- Keeping in mind, the unhealthy impact of plants at night, we should grow in outer spaces like windows or balconies, It can be grown at home, but outside the room.
29. (a) Argument I alone is True.  
The usage of mobile phones by students in schools will divert the minds of students and will become an unproductive gadget under those age group students. The use of mobile phones is not directly related with state travel and communication to parents. It can be done without mobile phones also.
30. (d) Both I and II are strong.  
Clearly, cigarette should be banned. Because, it is injurious to health, which causes cancer. Also, Banning Cigarettes would surely render jobless the large number of workers involved in manufacturing it.
31. (e) There are 14 letters between A and P.  
3<sup>rd</sup> letter from right end of 2<sup>nd</sup> word from left = A  
1<sup>st</sup> letter from left end of 2<sup>nd</sup> word from right = P

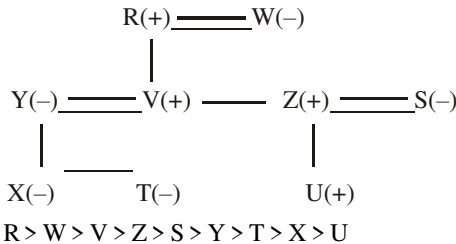


Sol. (32 -36)

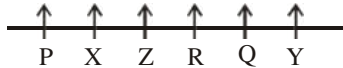
| Months       | 2009          | 2010            |
|--------------|---------------|-----------------|
| January (31) | (Australia) Z | (Canada) W      |
| April (30)   | (USA) Y       | (UAE) T         |
| July (31)    | (Russia) S    | (Maldives) X    |
| October (31) | (Malaysia) U  | V (Switzerland) |

32. (a) Z goes to Australia.  
 33. (c) Y goes for trip in April, 2009.  
 34. (c) Number of persons go for trip before U is same as number of persons go for trip after the one who go to Canada.  
 35. (e) Both S and X go for trip in July.  
 36. (e) Y - USA

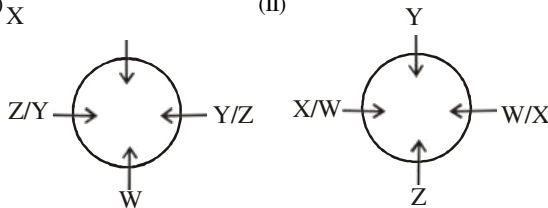
Sol. (37-40)



37. (c) 38. (c) 39. (c) 40. (c)  
 41. (b) Date in statement I and II are sufficient to answer the question, while the data in statemet III alone are not sufficient to answer the question.



42. (c) Either I or II alone is sufficient to answer the question. From either statement I or II, we get, Rahul's exam is scheduled on friday.  
 43. (c) Either I or II alone is sufficient to answer teh question.  
 (I) X                                      (II)



Hence, X sits 2<sup>nd</sup> right of W.

Sol. (44-45) :

| Dice |
|------|
| 5    |
| 3    |
| 2    |
| 6    |
| 1    |
| 4    |

44. (e) None dice is placed between 3 and 2.  
 45. (c) 1 is placed just above 4.

Sol. (46- 50) :

| Floor/Flat | Flat 1     | Flat 2    |
|------------|------------|-----------|
| 3          | F (Red)    | A (White) |
| 2          | D (Yellow) | C (Blue)  |
| 1          | E (Green)  | B (Black) |

46. (c) Person who likes Yellow colour lives on Flat 1 Floor 2.  
 47. (b) B lives just below the one who likes Blue colour.  
 48. (d) Green - Flat 1 - Floor 1  
 49. (d) C lives just to the east of D.  
 50. (c) F likes Red color.

Sol. (51-55) :

Per month total expenditure = ₹ 3,30,000

$$\therefore \text{Total income of family per month} = 330000 \times \frac{100}{75} = ₹ 4,40,000$$

So, saving per month = 4,40,000 – 3,30,000 = ₹ 1,10,000

Arsha's income = ₹ 60,000/month

$$\text{Arsha's expenditure} = 60000 \times \frac{60}{100} = ₹ 36000/\text{month}$$

$\therefore$  Arsha's saving = 60000 – 36000 = ₹ 24,000/month

$$\text{Taniya's saving} = \frac{1}{3} \times 24000 = ₹ 8000/\text{month}$$

$$\text{Taniya's income} = 8000 \times \frac{100}{10} = ₹ 80,000/\text{month}$$

$\therefore$  Taniya's expenditure = 80000 – 8000 = ₹ 72000/month

Nitu's income = ₹ 1,20,000/month

Nitu's expenditure = 2 × 36000 = ₹ 72,000/month

$\therefore$  Nitu's saving = 1,20,000 – 72,000 = ₹ 48,000

Mukesh's income = ₹ 90,000/month

$$\text{Mukesh's saving} = 90,000 \times \frac{20}{100} = ₹ 18,000/\text{month}$$

$\therefore$  Mukesh's expenditure = 90000 – 18000 = ₹ 72,000/month

So,

Vikash's income = 4,40,000 – (60,000 + 80,000 + 1,20,000 + 90,000)

= ₹ 90,000/month

Vikash's expenditure = 3,30,000 – (36,000 + 72,000 + 72,000 + 72,000)

= ₹ 78,000/month

$\therefore$  Vikash's saving = 90000 – 78000 = ₹ 12000/month

51. (d) Mukesh and Vikash's income is ₹ 90,000 each.

$$52. (c) \text{ Average salary of the family} = \frac{4,40,000}{5} = ₹ 88,000$$

53. (b) Ratio of salary earned to salary spent by Arsha = 60,000 : 36000 = 5 : 3

54. (e) Required difference = 72000 – 72000 = ₹ 0

55. (d) Required percentage  

$$= \frac{\text{Arsha's Salary}}{\text{Taniya's Salary}} \times 100 = \frac{60000}{80000} \times 100 = 75\%$$

56. (c) Time taken to collide trains  

$$= \frac{300}{72+48} = \frac{300}{120} = 2.5 \text{ hrs}$$
  
 Bird's speed = 68 km/hr  
 Hence, total distance covered by bird  

$$= 68 \times 2.5 = 170 \text{ km}$$

57. (d) Total expenditure of P =  $x \times \frac{10}{100} + 2 \times \frac{x \times 10}{100} = \frac{3x}{10}$   
 P's saving = ₹ 35,000  

$$\Rightarrow x - \frac{3x}{10} = 35000 \Rightarrow \frac{7x}{10} = 35000$$
  

$$\Rightarrow x = \frac{35000 \times 10}{7} = ₹ 50,000 \text{ (P's income)}$$

Total expenditure of Q =  $\frac{y \times 10}{100} + 12000 = \frac{y}{10} + 12000$

Q's saving =  $y \times \frac{75}{100} = \frac{3y}{4}$   

$$\Rightarrow y - \left( \frac{y}{10} + 12000 \right) = \frac{3y}{4}$$

$$\Rightarrow y - \frac{y}{10} - \frac{3y}{4} - 12000 = 0$$
  

$$20y - 2y - 15y = 120000$$

$$\Rightarrow \frac{3y}{4} = 120000$$

$$\Rightarrow 3y = 20 \times 12000$$
  

$$\Rightarrow y = \frac{20 \times 12000}{3} = ₹ 80,000 \text{ (Q's income)}$$

58. (b) Let capacity of vessel in which chemical B is present is 50.

P Q  
 A → (1 : 3 = 4) × 5  
 B → (3 : 2 = 5) × 10

↓

A → 5 : 15 = 20 [ Capacity of vessel A is  $\frac{2}{5}$  of capacity of vessel B ]

B → 30 : 20 = 50  
 In large container 35 : 35 = 70

Hence, Chemical P in final mixture =  $\frac{35}{70} \times 100 = 50\%$

59. (d) Milk in 30 litres mixture =  $30 \times \frac{40}{100} = 12 \text{ Litres}$

Milk in 20 litres mixture =  $20 \times \frac{60}{100} = 12 \text{ Litres}$

Total mixture after mixing both = 30 + 20 = 50 Litres  
 And, milk in new mixture = 12 + 12 = 24 Litres

Hence, required percentage =  $\frac{24}{50} \times 100 = 48\%$

60. (e) Let J and K's profit share is x and y respectively.  
 For J,

$$CI = x \left( 1 + \frac{10}{100} \right)^2 - x = \frac{x \cdot 121}{100} - x$$
  

$$\Rightarrow 3969 = \frac{21x}{100}$$

$$\Rightarrow x = \frac{3969}{21} \times 100 = ₹ 18,900$$

For K,

$$CI = y \left( 1 + \frac{20}{100} \right)^2 - y = \frac{36y}{25} - y$$
  

$$\Rightarrow 8316 = \frac{11y}{25}$$

$$\Rightarrow y = \frac{8316 \times 25}{11} = ₹ 18,900$$

∴ L's share in profit = 63,000 - (18,900 + 18,900) = 25,200

Hence, interest earned by L =  $25200 \times \left[ \left( 1 + \frac{10}{100} \right)^2 - 1 \right]$   

$$= 25200 \times \left[ \frac{121}{100} - 1 \right] = 25200 \times \frac{21}{100} = ₹ 5292$$

61. (c)  $13^3 \times 4 \div 52 + 108 \div \sqrt[3]{1728} \times 7 = ?$

$$? = \frac{13 \times 13 \times 13 \times 4}{52} + \frac{108}{12} \times 7$$

$$? = 169 + 9 \times 7 = 169 + 63 = 232$$

62. (a)  $(346 + 130 - 45) + (35 \div 7 \times 3) = ? - \sqrt{1521}$

$$\Rightarrow 431 + 15 = ? - 39$$

$$\Rightarrow ? = 446 + 39 = 485$$

63. (b)  $(25\% \text{ of } 250 \times 4) + (21\% \text{ of } 300 - 50) = ? - 20\% \text{ of } 40$

$$\Rightarrow \frac{25}{100} \times 250 \times 4 + \left( \frac{21}{100} \times 300 - 50 \right) = ? - \frac{20}{100} \times 40$$

$$\Rightarrow 250 + 63 - 50 = ? - 8$$

$$\Rightarrow ? = 263 + 8 = 271$$

64. (d) Pattern of the series is,

$$12 + (1^3 - 1^2) = 12$$
  

$$12 + (2^3 - 2^2) = 16$$

$$16 + (3^3 - 3^2) = 34$$
  

$$34 + (4^3 - 4^2) = 82 \neq 80$$

65. (b) Pattern of the series is,

$$74 + 51 = 125$$

$$125 - 49 = 76$$

$$76 + 46 = 122$$

$$122 - 42 = 80 \neq 79$$

66. (a) **For statement I:** Let the investment of Ekansh and Vinita is  $5x$  and  $4x$  respectively.

Ratio of profit = Ekansh : Vinita : Ayush

$$= 5x \times 12 : 4x \times 6 + 4x \times \frac{75}{100} \times 6 : 5x \times \frac{120}{100} \times 8$$

$$= 60x : 24x + 18x : 48x$$

$$= 60x : 42x : 48x$$

$$\Rightarrow \text{Ratio of profit} = 10 : 7 : 8$$

$$\therefore \text{Vinita's profit share} = 25000 \times \frac{7}{25} = \text{Rs. } 7000$$

So, Statement I alone is sufficient.

**For statement II:** Let Vinita invested in business is  $x$ .

$$\text{Ekansh's investment} = x + 7000$$

$$\text{Ayushi's investment} = x + 16000$$

One data is missing, so we can't find ratio of investment or profit.

67. (c) **From Statement I:** Let speed of Rahul and Yogesh is  $x$  km/hr and  $y$  km/hr respectively and time taken by both to meet each other is  $t$ .

$$\therefore \text{Distance between P and R} = 9 \times y = 9y \text{ km}$$

$$\text{And, distance between Q and R} = 4 \times x = 4x \text{ km}$$

$$\therefore t = \frac{9y}{x} \text{ [time taken by Yogesh between Q and R]}$$

$$\text{And, } t = \frac{4x}{9y} \text{ [time taken by Yogesh between Q and R]}$$

$$\therefore t \times t = \frac{4}{9} \times \frac{4x}{x} = 36$$

$$\Rightarrow t = \sqrt{36} = 6 \text{ hrs}$$

Hence, they will meet at 3:00 + 6 = 9:00 Pm each other.

So, statement I is sufficient.

**From statement II:** Let speed of Rahul and Yogesh is  $2x$  and  $3x$  km/hr respectively

$$\text{So, time taken to meet each other} = \frac{1200}{5x}$$

$\therefore$  Statement II alone is not sufficient.

**From statement III:** Difference between speed of Rahul and Yogesh = 40 km/hr

Can't find anything from statement III.

Now, from statement II and III together,

$$3x - 2x = 40$$

$$\Rightarrow x = 40$$

$$\text{So, speed of Rahul} = 2 \times 40 = 80 \text{ km/hr}$$

$$\text{Speed of Yogesh} = 3 \times 40 = 120 \text{ km/hr}$$

$$\therefore \text{Time taken to meet each other} = \frac{1200}{80+120} = 6 \text{ hrs}$$

Hence, they will meet at 9:00 PM each other.  
Therefore, either I or II and III together are sufficient.

68. (d) From statement I, II and III,

$$A : B : C : D$$

Ratio of investment

$$= a \times 12 : 3a \times 12 : (a + 5000) \times 6 : 4a \times 6$$

$$= 2a : 6a : (a + 5000) : 4a$$

According to question,

$$\text{Profit ratio of C and D} = \frac{1}{3}$$

$$\Rightarrow \frac{a + 5000}{4a} = \frac{1}{3}$$

$$\Rightarrow 3a + 15000 = 4a$$

$$\Rightarrow a = 15000$$

$$\therefore \text{Profit ratio} = A : B : C : D$$

$$= 30000 : 90000 : 20000 : 60000$$

$$= 3 : 9 : 2 : 6$$

$$\text{So, B's profit share} = 16000 \times \frac{9}{2} = \text{Rs. } 72,000$$

Hence, all the statements are sufficient.

69. (a) Let Shyam's investment is  $P$ .

$$\text{Time} = \frac{x}{10} \text{ year}$$

So, Ram's investment is  $(3000 - P)$ .

$$\text{Rate} = x\%$$

For Ram,

$$CI = (3000 - P) \left[ \left( 1 + \frac{x}{100} \right)^{x/10} - 1 \right]$$

For Shyam,

$$CI = \frac{P}{2} \left[ \left( 1 + \frac{x}{100} \right)^{x/10} - 1 \right]$$

$$SI = \frac{\frac{P}{2} \times x \times \frac{x}{10}}{100} = \frac{x^2 P}{2000}$$

From statement I:

$$\text{Shyam's investment} = 3000 \times \frac{2}{3} = \text{Rs. } 2000$$

$$\text{Ram's investment} = 3000 \times \frac{1}{3} = \text{Rs. } 1000$$

According to statement I,

$$4280 - 3000$$

$$= 1000 \left[ \left( 1 + \frac{x}{100} \right)^{\frac{x}{10}} - 1 \right] + 1000 \left[ \left( 1 + \frac{x}{100} \right)^{\frac{x}{10}} - 1 \right] + x^2$$

$$\Rightarrow 1280 = 2000 \left[ \left( 1 + \frac{x}{100} \right)^{\frac{x}{10}} - 1 \right] + x^2$$

From above equation,  $x$ 's value can be determined as there is only single variable in the equation.

Hence, statement I is sufficient.

**For statement II:**

$$P \left[ \left( 1 + \frac{x}{100} \right)^{10} - 1 \right] - \frac{xP}{2000} = 40$$

In the above equation, there are two variable in the single equation.

So, x's value can't find.

**From statement III:**

$$\frac{2P}{2000} + P \left[ \left( 1 + \frac{x}{100} \right)^{10} - 1 \right] = 2500$$

In the above equation, there are two variable in the single equation, so x's value can't find.

Hence, only statement I is sufficient to find x's value.

70. (a) **From statement I:**

Alcohol : water Total quantity

Ist  $\rightarrow (2 : 3 = 5) \times 9$

IInd  $\rightarrow (4 : 5 = 9) \times 5$

Equal the total quantity of both containers to form a new mixture.

Alcohol : Water

Ist  $\rightarrow 18 : 27$

IInd  $\rightarrow 20 : 25$

New mixture  $38 : 52 = 19 : 26$

Hence, only statement I is sufficient.

**Sol. (71 – 73).**

| Vessel | Total Quantity | Milk | Water | Ratio (Milk:Water) |
|--------|----------------|------|-------|--------------------|
| P      | 30 L           | 25 L | 5 L   | 05:01              |
| Q      | 30 L           | 18 L | 12 L  | 03:02              |
| R      | 30 L           | 20 L | 10 L  | 02:01              |
| S      | 50 L           | 35L  | 15 L  | 07:03              |
| T      | 50 L           | 42 L | 8 L   | 21:04              |

71. (c) Quantity of pure milk after replacement in the final mixture

$$= 20 \times \left( 1 - \frac{3}{30} \right) \times \left( 1 - \frac{5}{30} \right) \times \left( 1 - \frac{2}{30} \right) = 14 \text{ Litres}$$

$\therefore$  Quantity of water in the final mixture

$= 30 - 14 = 16 \text{ Litres}$

Hence, required ratio of Milk = 7 : 8

72. (b) Milk in vessel P =  $\frac{5}{6}$

Milk in vessel S =  $\frac{7}{10}$

$\therefore$  Mixed mixture from vessel P and S in the ratio = 1 : 1

Let part of pure milk in the mixture purchased by

customer is x.

$$\frac{\frac{5}{6}}{1} \times \frac{\frac{7}{10}}{1} = x$$

$$\Rightarrow \frac{7}{10}x = x - \frac{5}{6}$$

$$\Rightarrow 2x = \frac{7}{10} + \frac{5}{6} = \frac{21 + 25}{30} = \frac{46}{30}$$

$$\Rightarrow x = \frac{23}{30}$$

Hence, amount of pure milk in 3 litres mixture =  $3 \times$

$$\frac{23}{30}$$

= 2.3 Litres

73. (d) Quantity of milk after mixing from vessel Q and T

$= 18 + 42 = 60 \text{ L}$

Quantity of water =  $12 + 8 = 20 \text{ L}$

$\therefore$  Total quantity =  $20 + 60 = 80 \text{ L}$

Hence, profit percentage =  $\frac{20}{60} \times 100 = 33 \frac{1}{3} \%$

74. (c) Members in H.R. department =  $720 \times \frac{5}{360} = 10$

Members in product department =  $720 \times \frac{20}{360} = 40$

Hence, members to be added in H.R. department

$= 40 - 10 = 30$

75. (b) Male in software department =  $720 \times \frac{200}{360} \times \frac{4}{5} = 320$

Female in tech department =  $720 \times \frac{25}{360} \times \frac{7}{10} = 35$

Hence, required percentage =  $\frac{320}{35} \times 100 = 914.29\%$

76. (b) The number of QA members in 2022

$$= \frac{720 \times 50 \times 180}{360 \times 100} = 180$$

The number of marketing members in 2022

$$= 720 \times \frac{60}{360} \times \frac{50}{100} = 60$$

$\therefore$  Male in QA department =  $180 \times \frac{3}{10} = 54$

And, Female in marketing department =  $60 \times \frac{2}{5} = 24$

Hence, required ratio =  $54 : 24 = 9 : 4$

77. (d) Male in HR department =  $720 \times \frac{5}{360} \times \frac{2}{5} = 4$

Male in software department =  $720 \times \frac{200}{360} \times \frac{4}{5} = 320$

Male in tech department =  $720 \times \frac{25}{360} \times \frac{3}{10} = 15$

Male in marketing department =  $720 \times \frac{60}{360} \times \frac{3}{5} = 72$

Male in product department =  $720 \times \frac{20}{360} \times \frac{1}{2} = 20$

Male in QA department =  $720 \times \frac{50}{360} \times \frac{3}{10} = 30$

Hence, the number of males in all department =  $4 + 320 + 15 + 72 + 20 + 30 = 461$

78. (c) Total income of males in tech department for one month =  $15 \times 5000 \times 30 = 2250000 = 22.5$  Lakh

79. (e) I.  $3x^2 - (2 + 15\sqrt{11})x + 10\sqrt{11} = 0$

$3x^2 - 2x - 15\sqrt{11}x + 10\sqrt{11} = 0$

$x(3x - 2) - 5\sqrt{11}(3x - 2) = 0$

$(3x - 2)(x - 5\sqrt{11}) = 0$

$x = \frac{2}{3}, 5\sqrt{11}$

II.  $9y^2 - (5 + 18\sqrt{11})y + 10\sqrt{11} = 0$

$\Rightarrow 9y^2 - 5y - 18\sqrt{11}y + 10\sqrt{11} = 0$

$\Rightarrow y(9y - 5) - 2\sqrt{11}(9y - 5) = 0$

$\Rightarrow (9y - 5)(y - 2\sqrt{11}) = 0$

$\Rightarrow y = \frac{5}{9}, 2\sqrt{11}$

$5\sqrt{11} > 2\sqrt{11} > \frac{2}{3} > \frac{5}{9}$

Hence, relation between  $x$  and  $y$  cannot be established.

80. (c) I.  $9x^2 - 45x + 50 = 0$

$\Rightarrow 9x^2 - 15x - 30x + 50 = 0$

$\Rightarrow 3x(3x - 5) - 10(3x - 5) = 0$

$\Rightarrow (3x - 5)(3x - 10) = 0$

$\Rightarrow x = \frac{5}{3}, \frac{10}{3}$

II.  $12y^2 - 35y + 25 = 0$

$\Rightarrow 12y^2 - 15y - 20y + 25 = 0$

$\Rightarrow 3y(4y - 5) - 5(4y - 5) = 0$

$\Rightarrow (4y - 5)(4y - 5) = 0$

$\Rightarrow y = \frac{5}{3}, \frac{5}{4}$

$\frac{10}{3} > \frac{5}{3} = \frac{5}{3} > \frac{5}{4}$

Hence,  $x \geq y$

81. (e) I.  $x^2 + 43x + 406 = 0$

$\Rightarrow x^2 + 29x + 14x + 406 = 0$

$\Rightarrow (x + 29)(x + 14) = 0$

$\Rightarrow x = -14, -29$

II.  $y^2 + 46y + 513 = 0$

$\Rightarrow y^2 + 27y + 19y + 513 = 0$

$\Rightarrow (y + 27)(y + 19) = 0$

$\Rightarrow y = -19, -27 = 0$

As,  $-14 > -19 > -27 > -29$

Hence, relationship between  $x$  and  $y$  can't be established.

82. (b) I.  $4x^2 - 20x + 16 = 0$

$\Rightarrow 4x^2 - 16x - 4x + 16 = 0 \Rightarrow 4x(x - 4) - 4(x - 4) = 0$

$\Rightarrow (4x - 4)(x - 4) = 0 \Rightarrow x = 4, 1$

II.  $4y^2 - 80y + 336 = 0 \Rightarrow 4y^2 - 24y - 56y + 336 = 0$

$\Rightarrow (4y - 56)(y - 6) = 0 \Rightarrow y = 6, 14$

As  $14 > 6 > 4 > 1$

Hence,  $y > x$ .

83. (e) I.  $7x^2 - 92x + 96 = 0$

$\Rightarrow 7x^2 - 84x - 8x + 96 = 0$

$\Rightarrow 7x(x - 12) - 8(x - 12) = 0$

$\Rightarrow (7x - 8)(x - 12) = 0 \Rightarrow x = \frac{8}{7}, 12$

II.  $9y^2 - 128y + 143 = 0$

$\Rightarrow 9y^2 - 117y - 11y + 143 = 0$

$\Rightarrow 9y(y - 13) - 11(y - 13) = 0$

$\Rightarrow (y - 13)(9y - 11) = 0$

$\Rightarrow y = \frac{11}{9}, 13$

As  $13 > 12 > \frac{11}{9} > \frac{8}{7}$

Hence, relationship between  $x$  and  $y$  can't be established.

84. (b) Let cost price of mobile phone is  $100x$ .

M.P. =  $100x \times \frac{150}{100} = 150x$

$\therefore$  S.P. =  $150x \times \frac{80}{100} = 120x$

18% GST on S.P. =  $120x \times \frac{18}{100} = \frac{108x}{5}$

So, total cost to shop owner of mobile =  $100x + \frac{108x}{5}$

$= \frac{608}{5}x$



$$\therefore \text{Loss} = \frac{608}{5}x - 120x = \frac{8x}{5}$$

$$\text{Hence, loss percentage} = \frac{\frac{8x}{5}}{100x} \times 100 = \frac{8}{5} \times 100 = 16\%$$

85. (a) Time taken to cross river =  $\frac{15}{5} = 3$  hrs

Flow of river is in west direction,  
So, distance covered in west =  $3 \times 4 = 12$  km  
To cover distance 12 km on foot,

$$\text{Time taken} = \frac{12}{2} = 6 \text{ hrs}$$

Hence, total required time =  $3 + 6 = 9$  hrs.

86. (d) Let the present ages of 6 family members are  $u, v, w, x, y$  and  $z$  years

Let the present age of daughter in law is  $t$  years.

According to question,

$$u + v + w + x + y + z - 4 \times 6 = 112$$

$$\Rightarrow u + v + w + x + y + z = 112 + 24 = 136 \quad \dots(i)$$

And,

$$(u + v + w + x + y + z) - u + t = 98$$

Putting value from equation (i),

$$\Rightarrow 136 - u + t = 98$$

$$\Rightarrow t - u = 136 - 98 = 38 \text{ years.}$$

87. (c) Capital ratio of Dev and his sister  
=  $50000 \times 12 + 60000 \times 12 : 60000 \times 7 + 55000 \times 12$   
=  $600 + 720 : 420 + 660$   
=  $1320 : 1080 = 11 : 9$

Let profit at the end of 2 years is  $x$ .

$$\text{Dev's profit share} = \frac{x}{2} \times \frac{50}{100} + \frac{x}{2} \times \frac{11}{20}$$

$$\Rightarrow 42000 = \frac{x}{4} + \frac{11x}{40} = \frac{10x + 11x}{40} = \frac{21x}{40}$$

$$\Rightarrow x = \frac{42000 \times 40}{21} = 80,000$$

88. (b) Let A denotes perfect bottle and B denotes defect bottle.

3 bottles picked by inspector can be as

$$= [AAA, AAB, ABA, BAA, BBA, BAB, ABB, BBB] = 8$$

At least two bottles perfect

$$= [AAA, AAB, ABA, BAA] = 4$$

$$\text{Hence, required probability} = \frac{4}{8} = \frac{1}{2}$$

89. (a) 
$$\begin{array}{ccc} \text{I}^{\text{st}} & & \text{II}^{\text{nd}} \\ 25 & & 32 \\ & \searrow \quad \nearrow & \\ & 27 & \\ & \nearrow \quad \searrow & \\ 5 & & 2 \end{array} \rightarrow 30 \text{ kg}$$

Hence, required quantity of Ist variety

$$= \frac{30}{2} \times 5 = 75 \text{ kg}$$

90. (d)  $(3B + 4G) \times 7 = (5B + 3G) \times 6$

$$\Rightarrow 21B + 28G = 30B + 18G \Rightarrow 9B = 10G \Rightarrow \frac{B}{G} = \frac{10}{9}$$

According to question,

$$(1B + 2G) \times D = 4 \times (3B + 4G) \times 7$$

$$\Rightarrow (10 + 2 \times 9) \times D = 4 \times (3 \times 10 + 4 \times 9) \times 7$$

$$\Rightarrow 28 \times D = 28 \times (30 + 36) \Rightarrow D = 66 \text{ Days}$$

91. (a) Total days = 61

No. of days on leave = 14

Total no. of working days =  $61 - 14 = 47$

$$\text{Hence, L's income} = 47 \times 8 \times 500 + 14 \times 500 = \text{`} 2,09,000$$

92. (b) Total days = 61

No. days on leave =  $61 - 48 = 13$

No. of hours per day = 6

$$\text{Hence, J's income} = 48 \times 6 \times 500 + 13 \times 1500 = \text{`} 1,63,500$$

93. (c) No. of Days on leave =  $61 - 48 = 13$

Let working hour per day is  $H$ .

$$\therefore \text{J's income} = 259500$$

$$\Rightarrow 48 \times H \times 500 + 13 \times 1500 = 259500$$

$$\Rightarrow 24000H = 259500 - 19500 = 2,40,000$$

$$\Rightarrow H = \frac{240000}{24000} = 10 \text{ hours}$$

94. (d) M's working days = L's leave days = 14

M's working hours =  $8 + 4 = 12$

M's leave days =  $61 - 14 = 47$

$$\text{Hence, M's income} = 14 \times 12 \times 500 + 47 \times 1500 = \text{`} 1,54,500$$

95. (d) Total no. of days = 61

Total no. of working days =  $x = 61 - 7 = 54$

$x + y = 60$  (Given)

$y = 60 - 54 = 6$  (working hours)

$$\text{Hence, K's income} = 54 \times 6 \times 500 + 7 \times 1500 = \text{`} 1,72,500$$

**Sol. (96-100) :**

For Ist pie chart,

$$a + 5 + a + a + 20 + 2a = 100 \Rightarrow 5a + 25 = 100$$

$$a = 15$$

For IInd pie chart,

$$b + 20 + b + 10 + 40 = 100 \Rightarrow 2b = 100 - 70$$

$$\Rightarrow b = 15$$

| Book Store | Maths Books | Physics Book | Total Books |
|------------|-------------|--------------|-------------|
| P          | 90          | 110          | 200         |
| Q          | 120         | 30           | 150         |
| R          | 150         | 200          | 350         |
| S          | 240         | 60           | 300         |

96. (e) Physics books sold by all stores

$$= 11 + 30 + 200 + 60 = 400$$

Maths books sold by all stores

- $= 90 + 120 + 150 + 240 = 600$   
Hence, required percentage  
 $= \frac{600 - 400}{600} \times 100 = \frac{200}{6} = 33.33\%$  (less)
97. (a) Physics books sold by S = 60  
Maths books sold by Q and S =  $120 + 240 = 360$   
Hence, required percentage =  $\frac{60}{360} \times 100 = \frac{100}{6} = 16.67\%$
98. (b) Maths books sold by R = 150  
Total books sold by S = 300  
Hence, required ratio =  $150 : 300 = 1 : 2$
99. (d) Maths books sold by P = 90  
 $\Rightarrow x + 15 = 90 \Rightarrow x = 75$   
Maths books sold by Q = 120  
 $\Rightarrow y - 25 = 120 \Rightarrow y = 145$   
Hence, required ratio =  $x : y = 75 : 145 = 15 : 29$
100. (e) Total books sold by P and Q =  $200 + 150 = 350$   
Physics books sold by R = 200  
Hence, required percentage =  $\frac{350 - 200}{200} \times 100 = \frac{150}{2} = 75\%$  (more)
101. (c) Statement II is opposite of what is needed as this would improve quality in the Institutions. This is incorrect. Statements I and III are correct and give valid reasons for the lack of quality. Hence, option (c) is correct.
102. (b) I has not been mentioned anywhere and is incorrect. 'The intention is to leave the HECI to focus on quality while leaving funding of public institutions to the Ministry of Human Resource Development (MHRD).' II is incorrect. 'This springs from the government's announcement of a list of IoEs. The government has chosen three public and three private institutions for this status. The public institutions are the Indian Institute of Science, Bengaluru, and the Indian Institutes of Technology at Delhi and Mumbai. The private ones are the Birla Institute of Technology and Science Pilani, the JIO Institute and the Manipal Academy of Higher Education.' III is correct. Hence, option (b) is correct.
103. (c) Euphoric: full of energy, excitement, and cheerfulness. Castigating: reprimand/rebuke (someone) severely. Deploing: feel or express strong condemnation of (something). Lamenting: a passionate expression of grief or sorrow. The author is criticizing the regulation of the education sector and elaborates on this in the entire paragraph. Option (d) can also be eliminated as the author is not sad or expressing grief but is angry. Out of options (b) and (c), (c) is a better choice as the author is not verbally scolding anyone (castigating) but is expressing disapproval and criticizing the heavy handedness of the government regulator in the education sector. Here, option (c) is a better fit.
104. (b) Statements I and II are correct. If it is upto the government, it may use its discretion to make the Institutions comply with their ideologies and rules. Statement III is incorrect. The ministry/government would simply be looking after funding and not functioning of the sector. This cannot be concluded.
105. (d) Statement I is correct. The entire paragraph talks about how an ideal Institution should focus on a wide variety of disciplines. Statement II is the opposite of what the paragraph states and is incorrect. Statement III is correct as can be seen from the examples of IITs and IISc.
106. (e) All of the statements here talk about the JNU is a positive tone as well as highlight its diversity in terms of subjects, thinking and research. Also, the tone of the author also makes it clear that all these render JNU worthy of being in the list. Hence, option (e) is correct.
107. (a) Statement B is incorrect as the author is clearly unhappy with the list of IoEs and does not consider it to be a good start. Statement (c) is incorrect as the idea of eminence being synonymous with money is not the central idea of the passage. Statement (d) is incorrect as this has not been mentioned anywhere. Statement (a) is correct as this neatly states the gist of the passage- that even with a new regulator, the government's approach remains short sighted and this can be seen in its choices for IoEs. Thus, option A is the best fit.
108. (c) Passage Para-2 : makes it clear that most of the plastic that ended up being in the ocean, originates from the land. This makes the statement 1 true. Refer to: Para-3 For more than 50 years, over 2012, and confirming an upward trend over the past years. This makes the statement 2 invalid. Refer to: Para-5: A simple walk on growing, staggeringly. Option (c) is the correct answer.
109. (c) All the qualities other than Brittle have been mentioned in the passage. Thus the option C is the correct answer.
110. (c) Refer to: Para-3: For more than 50 years, over 2012, and confirming an upward trend over the past years. Thus the statement 1 is true. The production of plastics was 299 million tons in 2013 and not in 2012. This makes the statement 2 false. The report is published by the "Global Industry Analyst" and not by the 'Global Industry Experts'. This makes the statement 3 invalid. Hence, The answer will be option C i.e. Both statement 2 and 3 are false.
111. (a) Option (a) is correct.

112. (d) Plastic is comparatively cheaper. This quality of plastic has lead to over-consumption of plastic goods. Thus the statement 1 is true.  
Plastic does not degrade easily, Ultimately it ended up being a pollutant. This makes the statement 2 valid.  
There has been no mention in the passage about the the statement 3. This makes the statement 3 invalid.  
Evidently, option D is the correct answer.
113. (a) Refer to: Propensity means an inclination or natural tendency to behave in a particular way which is the same as Tendency and that makes them synonyms. Antipathy means a strong feeling of dislike while Inadequate means not appropriate.  
Clearly, option A is the correct answer.
114. (b) Staggeringly: to an astonishing or shocking degree.  
Startling: very surprising, astonishing, or remarkable.  
Predictable: able to be predicted.  
Ordinary: with no special or distinctive features; normal.  
Unremarkable: not particularly interesting or surprising.  
Unexceptional: not out of the ordinary; usual.
115. (c) Preface, Prologue and Preamble all have the same meaning while Conclusion means the end or the finish of an event. Thus, Conclusion is the antonym of Prelude.  
So, option C is the correct answer.
116. (b) Option (b): All the words fit in well.
117. (c) Option (c): All the words fit in well.  
Hence, option C is correct.
118. (b) Option (b): All the words fit in well.
119. (e) The statement is correct in its original form and no word needs to be replaced.  
Hence, option E is correct.
120. (c) The original statement is incorrect as the none of the words make sense and render the statement meaningless.  
Option (a): Complacency is opposite of what is needed here. For is also incorrect.  
Option (b): Newly is incorrect here.  
Option (d): With does not make sense here.  
Option (c): All the words are a perfect fit in the statement.  
Correct: The turbulence in emerging markets is hardly surprising as the tightening of monetary policy by the U.S. Federal Reserve has traditionally caused the turning of the global credit cycle.  
Hence, option C is correct.
121. (d) 122. (e) 123. (c) 124. (e) 125. (c)  
The Reserve Bank of India did not extend the moratorium in its monetary policy review on Thursday. It allowed banks to restructure the loans of borrowers who are in financial difficulty and are unable to repay them. Once restructured, such loans would be considered as standard. This means that the lenders won't report the borrower as a defaulter to credit bureaus if the borrower follows the new payment structure. In his speech, RBI governor said, "The disruptions caused by COVID-19 have led to heightened financial stress for borrowers across the board.
126. (d) 127. (b)
128. (d) The original sentence is erroneous.  
Reason: The word 'leisure' must be followed the preposition 'for' instead of 'till' in this context. The expression "leisure for" means 'free time for'.  
Hence 'for' should be used in place of 'till' to make the sentence grammatically and contextually correct.  
Option (d) is hence the correct answer.
129. (e) The original sentence is absolutely correct and hence the bold part needs no replacement.  
Option (e) is hence the correct answer.
130. (d)
131. (a) Both (I) and (II)  
Pondering means to think about something deeply and carefully. Looking at the context of the sentence, it is best to use pursuing which means to follow some measures in order to accomplish a goal or task. Here, Karthik is interested in pursuing engineering.  
Infused - to fill someone or something with quality or emotion  
Enthused - excited about something  
So, the word enthused is a more appropriate word and can be used to replace infused to make the sentence sound more logical. Also, varied suits the context well. It is used to indicate that Karthik has different (variety of) interests. Use of dissimilar brings out an unintended connotation.
132. (a)
133. (e) None of these  
We have to read the sentence carefully to understand the context being expressed. We find that the sentence tells us that the tax collections must have been affected unfavourably because of the unimpressive economic activity. However, the April GST numbers are surprisingly positive. This makes perfect sense. Now, looking at the highlighted words, there is no need to replace any of them.
134. (d) Only 2 and 3  
The sentence talks about the decision taken by the explorers to set up camp at a place which was near running water and good shade. First blank - we need a verb to link the subject EXPLORERS with the object pronoun IT. DECIDED and CONCLUDED will fit here. Second blank - we need a noun to be modified by the adjective GOOD. PLACE, LOCALE and LOCATION will all fit here.
135. (b) Only 1 and 2  
The sentence seeks to convey that the Indian government has enacted a strategy to attract foreign investment. For the first blank, we need a verb in the past participle as the present perfect tense construction HAS + VERB always takes the past participle form of the verb. LAUNCHED and FORMULATED fit contextually. For the second blank, we need a verb to be modified by the adverb SPECIFICALLY.

- FOCUSED and CENTRED fit contextually. (3) is incorrect. ESTABLISHED does not fit contextually. TARGETED does not fit grammatically.
136. (c) 137. (d)
138. (c) From the given words, spelling of 'stewardship' is incorrect instead it should be 'stewardship' which means higher rank officer. Hence, the correct answer choice would be option (c)
139. (e) From the given words, spelling of 'saboteurs sand infiltrate' is incorrect, instead it should be 'saboteurs' which means a person who intentionally causes the destruction of property, and infiltrate means to secretly penetrate. Hence, the correct answer choice would be option (e)
140. (b) From the given words, spelling of 'comandos' is incorrect instead it should be 'commandos' which means specially trained fighting force. Hence, the correct answer choice would be option (b)
141. (c) 142. (a) 143. (d)
144. (c) Shiv Nadar steps down as HCL Tech MD, Vijayakumar to take over. Shiv Nadar, the founder of HCL Technologies Ltd, and its chief strategy officer, has tendered his resignation as managing director, as well as a director.
145. (d) Ministry of Food Processing Industries (MoFPI) has recently extended the Operation Greens Scheme from Tomato, Onion and Potato (TOP) to all fruits & vegetables (TOTAL) for a period of six months on pilot basis as part of Aatmanirbhar Bharat Abhiyan.
146. (b) The Confederation of Real Estate Developers' Association of India, is the apex body for private real estate developers in India, representing over 20,000 developers through 21 states and 220 city chapters across the country.
147. (b) Ola Electric and Bank of Baroda have signed the largest long-term debt financing agreement in Indian EV industry.
148. (d)
149. (b) The government's 7.93 per cent stake in the Kolkata-based conglomerate is worth Rs 20,250 crore as it owns the stake in ITC through the Special Undertaking of the Unit Trust of India (SUUTI).
150. (c) Gujarat, Tamil Nadu, Andhra Pradesh and Maharashtra are among the top 10 States that have received a maximum Rural Infrastructure Development Fund (RIDF) in the last three years.
151. (a) The world's highest motorable road was inaugurated in eastern Ladakh.
- It is situated at the height of 19,300 feet at Umling La Pass in eastern Ladakh.
  - The BRO constructed a 52-km long tarmac road through this high mountain pass.
  - The road at Umlingla Pass now connects the important towns in the Chumar sector of Eastern Ladakh.
152. (a) The Depositor Education and Awareness Fund Scheme (DEAF Scheme) was established by the Reserve Bank of India (RBI) in 2014 for the promotion of depositors' interest and for any other related purposes deemed necessary by the RBI
153. (b) Fast-moving consumer goods, also known as consumer packaged goods, are products that are sold quickly and at a relatively low cost. Zomato is an Indian multinational restaurant aggregator and food delivery company founded by Deepinder Goyal and Pankaj Chaddah in 2008.
154. (a) 155. (b)
156. (a) Hemis National Park located in Ladakh is the largest National Park in India. Hemis National Park is India's protected area inside the Palearctic realm, outside the Changthang Wildlife Sanctuary northeast of Hemis, and the proposed Tso Lhamo Cold Desert Conservation Area in North Sikkim.
157. (a) Kailash Satyarthi is an Indian 'Children's rights' activist.
- He is a Nobel Peace Prize recipient (2014).
  - He is the founder of Bachpan Bachao Andolan, Global March Against Child Labour, Global Campaign for Education, Kailash Satyarthi Children's Foundation, and Rugmark now known as Good Weave International.
  - He has been a member of a UNESCO body established with the goal of providing "Education for All".
158. (c)
159. (c) Launching the 'Scheme of Penalty for non-replenishment of ATMs', the central bank said that a penalty of Rs. 10,000 per ATM will be levied in the event of a cash-out situation for more than 10 hours in a month.
160. (d) Odisha govt will continue to sponsor Indian men's and women's national hockey teams for another 10 years, after the current sponsorship ends in 2023.
161. (a) World Red Cross Red and Crescent Day is celebrated on 8 May each year.
- The theme of World Red Cross Day 2021 is 'Together we are unstoppable'.
  - It is celebrated to commemorate the birth anniversary of the founder of the Red Cross and International Committee of the Red Cross (ICRC) Henry Dunant.
162. (c) To make the Pradhan Mantri Jan Dhan Yojana (PMJDY) scheme more attractive, the finance ministry decided to double the overdraft facility from Rs 5,000 to Rs 10,000.
163. (b) The Norwegian Nobel Committee has decided to award the Nobel Peace Prize for 2020 to the World Food Programme (WFP) for its efforts to combat hunger.
- It has been awarded to WFP for its contribution to bettering conditions for peace in conflict-affected areas and for acting as a driving force in efforts to prevent the use of hunger as a weapon of war and conflict.
164. (c) ICICI Bank has launched a digital and contactless banking platform for merchants.
- The service, christened 'merchant stack', is targeted at the over 2 crore retail merchants in the country to render banking services digitally.

165. (d)
166. (c) Chipmaker Intel has collaborated with the Central Board of Secondary Education (CBSE) to launch the 'AI For All' initiative. About 'AI For All' initiative: Based on Intel's 'AI For Citizens' programme, 'AI For All' is a 4-hour, self-paced learning programme.
167. (b) Two Indian organisations bag the prestigious UNDP Equator Prize 2021, for their exceptional achievement in showcasing local, innovative, nature based solutions for tackling biodiversity loss and climate change. The two organizations from India out of the ten winners globally are- Aadhimalai Pazhangudiyinar Producer Company Limited and Snehakunja Trust.
168. (c)
169. (e) Indian Farmers Fertiliser Cooperative Limited (IFFCO) has introduced the world's first Nano Urea Liquid for farmers during its 50th annual general body virtual meeting. The production of Nano Urea Liquid will commence by June 2021.
170. (b)
171. (a) Two Indian firms, Reliance Industries' technology arm Jio Platforms and e-learning startup Byju's have figured in the Time Magazine's first-ever list of 100 most influential companies.
172. (e)
- India is ranked at 10th place in the 'Climate Change Performance Index (CCPI) 2021', released on 7th December 2020.
  - The overall score of India is 63.98. It is for the second time in a row that India emerged among the top 10 countries with higher climate performance from among 58 economies.
  - India was at 9th spot last year in the index.
173. (d)
174. (b) National Electronic Toll Collection is a program which uses FASTag device that employs Radio Frequency Identification (RFID) technology, for making toll payments directly from the prepaid account linked to it.
175. (b) 176. (a)
177. (b) Indravati Tiger Reserve is located in the state of Chhattisgarh with a total area of approximately 2799.08 square km. Recently, tiger counting was carried out in the reserve covering more than 400 square kilometers, which is the first time covering such a large area of the reserve. As per the latest data, the reserve had 3 tigers.
178. (a) The Indian Navy recently had maiden sea trials of its second indigenous stealth destroyer of the P15B class named Mormugao, which is built by the Mazagon Dock Shipbuilders Ltd (MDSL). The ship has been named after the port town in Goa. It has been proposed to commission the stealth destroyer in mid-2022 and would add significantly to the Indian Navy's combat capabilities.
179. (b) The state of the world's land and water resources for food and agriculture (SOLAW 2021) report was released by the Food and Agriculture Organization of the United Nations (FAO). From 8 to 9 December 2021, the Land and Water Days are hosted by the Food and Agriculture Organization of the United Nations (FAO). The central theme of SOLAW 2021 is "Systems at breaking point".
180. (b)
181. (b) India's leading public sector bank "bob World Wave" has launched a solution for digital banking payments, named bob World Wave. The bob World Wave is a wearable device, which will allow customers to monitor their SpO2, body temperature, heart rate and blood pressure. BoB has partnered with NPCI to offer the wearable payment solution.
182. (b) 183. (c) 184. (c) 185. (b) 186. (b)
187. (c)
188. (a) Union Ministry of Statistics and Programme Implementation (MoSPI) releases the Index of Industrial Production (IIP). As per the recent edition of the data, the IIP measure grew 1 per cent for December 2020. The Consumer Price Index inflation (CPI) decreased to 4.06 per cent in January 2021, due to the decline in vegetable prices.
189. (b) India has more than 63 million MSMEs. They account for nearly 40 per cent of India's exports, about 6.11 per cent of the country's manufacturing GDP. MSMEs contribute to 24.63 per cent of the GDP from services sector.
190. (b) Uzbekistan's President Shavkat Mirziyoyev has been re-elected for a second five-year term, according to the preliminary results of a poll. Mirziyoyev won the elections with 80.1 per cent of the vote as per Uzbekistan's Central Election Commission. The 64-year-old leader took office in 2016 following the death of long-time President Islam Karimov. Mirziyoyev is known for relaxing many policies of his predecessor.



# SBI Clerk (Junior Associates) Prelims Solved Paper-2021

(Based on Memory)

Time : 60 minutes

Max. Marks : 100

## Reasoning Ability & Computer Aptitude

**DIRECTIONS (Qs. 1-5) :** Study the following information carefully and answer the questions given below.

Twelve persons were seated in two parallel rows containing six persons each, in such a way that there is an equal distance between adjacent persons. In row 1 - Z, Y, X, D, E and F were seated and all of them are facing south and in row 2 - P, J, I, S, T and U were seated and all of them were facing north.

P was seated second from the end. One person was seated between P and the one who faces Z, Y was seated to the immediate right of Z, X was seated third to the right of D. J faces the one who sits second to the left of Y. One of the immediate neighbors of D faces S. T was seated second to the right of S. One person was seated between E and the one who faces U.

- Who was seated second to the left of U?  
(a) S (b) I (c) P (d) J (e) T
- How many persons were seated between J and the one who faces X?  
(a) Three (b) More than three (c) None (d) One (e) Two
- The number of persons seated between Z and E was the same as the number of persons seated between \_\_\_\_\_.  
(a) P and T (b) J and I (c) I and T (d) T and U (e) U and S
- Who is sitting between E and Z in Row-1?  
(a) X and Y (b) D and X (c) F and X (d) T and U (e) I and T
- Who among the following sits 3<sup>rd</sup> to the left of J in Row-2?  
(a) U (b) P (c) S (d) T (e) I

**DIRECTIONS (Qs. 6-9) :** Study the following information carefully and answer the questions given below.

Eight friends K, J, I, H, T, U, V and W are seated in a straight line, facing north, but not necessarily in the same order. There are four persons in between I and W. J and U is immediate neighbour of I, who is second to the right of T. U is not an immediate neighbour of T. H is not an immediate neighbour of W. V sits second to the left of K. K does not sit on the immediate left of H.

- What is position of I with respect to H?  
(a) Third to the right (b) Second to the right (c) Third to the left (d) Second to the left (e) Forth to the right
- How many persons sit between I and K?  
(a) Two (b) One (c) Three (d) Four (e) No one
- Who sits second to the right of J?  
(a) T (b) H (c) K (d) W (e) U
- Who among the following sits at extreme end of the row?  
(a) J (b) V (c) K (d) T (e) H
- In the word 'DIAGONAL', how many pairs of the letters have the same number of letter between them in the word as in alphabet?  
(a) Four (b) Two (c) One (d) Three (e) More than four

**DIRECTIONS (Qs. 11-15) :** Answer the following questions referring to the symbol-letter-number sequence given below:

S @ N 1 Q 3 Y W 8 N O 5 C Z 2 \$ P \* A B 9 L 6 M 4 # F X 7 I

- How many symbols are there in the above sequence which are immediately preceded by a number and immediately followed by a consonant?  
(a) None (b) Two (c) One (d) Three (e) None of these
- What should come in place of the question mark (?) in the following sequence?  
13@ 8OY ? A9P  
(a) Z2C (b) C2N (c) Z\$C (d) Z\$5 (e) None of these
- Which of the following is exactly middle between the seventh element from the right and sixth element from the left end?  
(a) Z (b) 2 (c) \$ (d) P (e) None of these
- Which of the following is the fifth element to the left of the ninth element from the right end in the above sequence?  
(a) 2 (b) P (c) \$ (d) \* (e) None of these
- If first and second halves of the above sequence are written in reverse order, then which will be the sixth element to the right of the fourteenth element from the right end?  
(a) L (b) # (c) 6 (d) 9 (e) None of these

**DIRECTIONS (Qs. 16-17) :** Study the information carefully and answer the questions given below.

Gopal starts walking from point Z towards north east directions after walking some distance reached point Y and starts moving to east direction and walks 6 m. and reached point X from there he takes a left turn and walks 3 m to reach point W, from there take a right turn and walk 5 m to reach point V.

16. What is the shortest distance between point V and X?  
 (a)  $\sqrt[3]{34}$  (b)  $\sqrt{25}$  (c)  $\sqrt{34}$  (d)  $2\sqrt{8}$   
 (e) None of these
17. In which direction is Z with respect to X?  
 (a) North east (b) South West  
 (c) East (d) West  
 (e) South

**DIRECTIONS (Qs. 18-20) :** In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I follows.  
 (b) If only conclusion II follows.  
 (c) If either conclusion I or II follows.  
 (d) If neither conclusion I nor II follows.  
 (e) If both conclusions I and II follow.

**18. Statements :**

$D > Q \geq P < M \leq A; M > R = X$

**Conclusions :**

- I.  $A > X$  II.  $Q > M$

**19. Statements :**

$E \leq B \leq M = T \geq F \geq G = S$

**Conclusions :**

- I.  $M > G$  II.  $M = S$

**20. Statements :**

$L \leq X \geq F > K \geq D > N$

**Conclusions :**

- I.  $L < F$  II.  $X > D$

**DIRECTIONS (Qs. 21-25) :** Study the following information carefully and answer the questions given below.

Eight boxes i.e. Z, Y, X, W, V, U, T and S are placed one above the another but not necessarily in the same order. Three boxes are placed between T and V. No box is placed between W and T. The number of boxes placed above the box W is same as the number of boxes placed below the box S. Box S is exactly between the box T and V. Box U which is at top most position is placed just above the box Y. Box Y is placed above the box W. Box Z is placed above the box X, which is not placed at the bottom most position.

21. How many boxes are placed below the box T?  
 (a) Two (b) Four (c) Three (d) One  
 (e) None of these
22. How many boxes are placed between Y and T?  
 (a) None (b) Two (c) Three (d) Five  
 (e) One

23. The number of boxes placed above X is same as the number of boxes placed below the box \_\_\_\_\_.  
 (a) Box Y (b) Box Z  
 (c) Box U (d) Box X  
 (e) None of these
24. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?  
 (a) Y (b) T (c) W (d) V  
 (e) X
25. Which of the following box is placed exactly between Y and S?  
 (a) Z (b) T (c) W (d) X  
 (e) None of these

**DIRECTIONS (Qs. 26-29) :** In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

- (a) If only conclusion I follows.  
 (b) If only conclusion II follows.  
 (c) If either conclusion I or II follows.  
 (d) If neither conclusion I nor II follows.  
 (e) If both conclusion I and II follow.

**26. Statements :**

Only a few students are Educator  
 All Educator are Adults.  
 No Adults are Children.

**Conclusions :**

- I. Some Students are Children  
 II. No Children are Students

**27. Statements :**

Only a few Classes are Schools.  
 All Schools are Colleges.  
 All Colleges are Universities.

**Conclusions :**

- I. Some Schools are Universities  
 II. Some Schools can be Colleges

**28. Statements :**

Some Registers are not Book  
 Only a few Book are Copies.  
 Every Copies are Notebooks.

**Conclusions :**

- I. Some Registers can be Notebooks  
 II. Some Book are not Copies

**29. Statements :**

Only a few Phones are Laptops.  
 Only Laptops are Computers.  
 Few Laptops are Smartphones.

**Conclusions :**

- I. Some Phones are not Computers  
 II. Some Laptops are not Smartphones

30. The position of how many digits in the number "2451479638" will remain same when the first half and the second half of the digits are arranged in ascending order separately?  
(a) One (b) Two (c) Three (d) Four  
(e) None

**DIRECTIONS (Qs. 31-35) :** Study the following information carefully and answer the questions given below –

Z, Y, X, W, V, U, T and S are eight friends sitting in a circle facing the centre. U is on the immediate right of W while Y is on the immediate left of V. Z is neither sitting opposite to X nor S. And Z is not the neighbour of S. V and S are sitting adjacent to X.

31. Which of the following is wrong?  
I. U is to the immediate left of T.  
II. Z is to the immediate right of W.  
III. S and W are sitting opposite each other.  
(a) Only I (b) Only II  
(c) Only III (d) Only II and III  
(e) All I, II and III
32. Which of the following are two pairs of adjacent members?  
(a) Z U and Y X (b) U S and Y T  
(c) Z T and X V (d) Y T and Z T  
(e) None of these
33. What is the position of T?  
(a) Fourth to the left of U.  
(b) Third to the left of Y.  
(c) Third to the right of Y.  
(d) Second to the left of W.  
(e) None of these
34. Which of the following is / are correct?  
I. W is third to the left of V.  
II. W is fifth to the right of V.  
III. Z and U are adjacent to each other.  
(a) Only I (b) Only II  
(c) Only III (d) Only I and II  
(e) All I, II and III
35. If Z and V interchange places and so do U and S, then  
(a) T and X are adjacent to U.  
(b) W and Y are adjacent to Z  
(c) V is not sitting opposite Z.  
(d) S is not sitting opposite U.  
(e) S is fourth to the left of X.

### Numerical Ability

**DIRECTIONS (Qs. 36-40) :** What will come in place of question mark (?) in the following series?

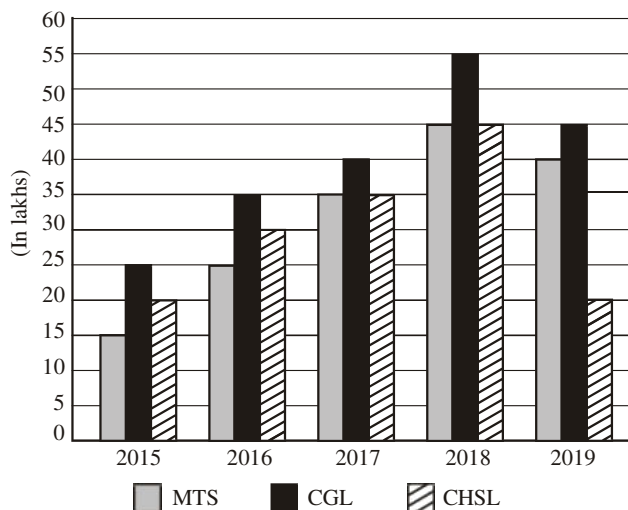
36. 10, 30, 68, \_\_\_\_, 222, 350  
(a) 25 (b) 125 (c) 130 (d) 520  
(e) 512
37. 10, 12, 22, 34, \_\_\_\_, 90  
(a) 56 (b) 52 (c) 50 (d) 46  
(e) 32

38. 22, \_\_\_\_, 41, 56, 76, 102  
(a) 23 (b) 30 (c) 31 (d) 26  
(e) 48
39. 1, 2, 6, 21, \_\_\_\_, 445  
(a) 44 (b) 94 (c) 66 (d) 88  
(e) 90
40. 99, 105, 112, \_\_\_\_, 137, 159  
(a) 94 (b) 97 (c) 114 (d) 113  
(e) 122

**DIRECTIONS (Qs. 41-50) :** Simplify the following Questions.

41.  $x\%$  of 270 = 564.3 – 540  
(a) 7 (b) 11 (c) 9 (d) 8  
(e) 6
42.  $\frac{4}{x} = \frac{1}{400} + \frac{1}{300} + \frac{1}{200} + \frac{1}{100}$   
(a) 192 (b) 292 (c) 392 (d) 194  
(e) 198
43.  $?^2 = 729 \div 72 \div 81 \times 512$   
(a) 32 (b) 512 (c) 256 (d) 128  
(e) 64
44.  $\frac{5}{2} + \frac{7}{2} + \frac{13}{2} = ? + \frac{8}{5} + \frac{17}{10}$   
(a) 11.5 (b) 10.2 (c) 9.2 (d) 4.6  
(e) 2.3
45.  $4^{x-2} = 4^5 \div 16^3 \times 64^2 \div 256$   
(a) 1 (b) 3 (c) 2 (d) 0  
(e) -2
46.  $? \times 130 \div 144 = 390 \times 704 \div 384$   
(a) 738 (b) 594 (c) 1188 (d) 792  
(e) 752
47.  $\sqrt{400} \times (8000)^{\frac{1}{5}} = ? \times (4096)^{\frac{1}{4}}$   
(a) 15 (b) 24 (c) 50 (d) 20  
(e) 30
48.  $70\% \text{ of } 90 + 9^2 = (32)^5 \div ?$   
(a) 151 (b) 149 (c) 143 (d) 144  
(e) 142
49.  $\frac{418}{352} \times 324 - 14 \times 20 = ?$   
(a) 116 (b) 58 (c) 29 (d) 87  
(e) 145
50.  $? \times 2 - 20^2 = 14^2 - 18 \times 22$   
(a) 150 (b) 100 (c) 180 (d) 120  
(e) 195

**DIRECTIONS (Qs. 51-55) :** Bar-chart given below shows students registered for three different exams in five different years. Study the data carefully and answer the following questions.



51. Total number of students registered for CGL in all the five years is what percent more than total number of students registered for CHSL in all the five years together?
- (a) 50% (b)  $37\frac{1}{2}\%$  (c) 25% (d)  $33\frac{1}{3}\%$   
 (e)  $66\frac{2}{3}\%$
52. Find the ratio of total students registered for all the three exams in 2015 and 2016 together to total students registered for all the three exams in 2017 and 2018 together?
- (a) 2 : 3 (b) 10 : 17  
 (c) 9 : 17 (d) 3 : 2  
 (e) 5 : 8
53. Average number of students registered for MTS exam in all the five years together in how much less/more than average number of students registered for CHSL exam in all the five years together?
- (a) 8 (b) 10 (c) 4 (d) 3  
 (e) 2
54. Out of total students registered for all the exams in 2019, 80% appeared for exam. Students appeared in Clerk, CGL and CHSL are in the ratio 3 : 3 : 1. Find how much percent of students appeared for exam MTS out of students registered for MTS exam in that year?
- (a) 60% (b) 70% (c) 80% (d) 90%  
 (e) 75%
55. In 2016, out of total students registered for all the three exams, 80% appeared out of which only 25% qualified the exams. Find the number of students appeared in exam but disqualified. (in Lakh)
- (a) 63 (b) 54 (c) 45 (d) 36  
 (e) 72
56. Simple interest on a sum of ₹12000 at the end of 5 years is ₹6000. What would be the compound interest on the same sum at the same rate for 3 years when compounded annually?
- (a) 2520 (b) 3972 (c) 3600 (d) 3970  
 (e) 4200

57. The population of a city in 2016 increased by 10% from 2015 and in 2017 it decreased by 20% with respect to previous year and in 2018 it again increased by 25% with respect to previous year. If in 2019, the population of the city is 2332000, then what was the population of city in 2016?
- (a) 1540000 (b) 2530000  
 (c) 2120000 (d) 1980000  
 (e) 1760000
58. A can do a work in 20 days. B is 25% more efficient than A. Both worked together for 4 days. C alone completed the remaining work in 4 days. A, B and C together will complete the same work in?
- (a) 5 days (b) 4 days  
 (c)  $5\frac{1}{2}$  days (d)  $4\frac{1}{2}$  days  
 (e) 3 days
59. Naveen and Naman invested ₹6000 and ₹8000 for 12 months and 6 months respectively. Find profit share of Naman is how much percent more or less than profit share of Naveen?
- (a) 10% more (b) 11.11% less  
 (c) 11.11% more (d) 33.33% more  
 (e) 33.33% less
60. P, Q and R invested in a ratio of 7 : 8 : 5 in a business. They got an annual profit of ₹244900. If P and R withdrew their amount at the end of 3 months and 7 months respectively. Then find the difference between P and R share of profit?
- (a) 58900 (b) 57000  
 (c) 38000 (d) 76000  
 (e) 85500

**DIRECTIONS (Qs. 61-65):** The data given below shows the information of total students in class P, Q and R which divided in three group A, B and C.

**Class P:** Total no. of students are 180. 60 students are in group A. Ratio of number of students in group B and C is 1 : 2.

**Class Q:** Total no. of students are 160. The ratio of no. of students in group A, B and C is 3 : 5 : 8.

**Class R:** The no. of students in group B are half of that in group A. The no. of students in group A of class R are 20 more than in group A of class P no. of students in group C of class R are 20% less than that in group A of same class.

61. No. of students in group A of class Q are what percentage of no. of students in groups B of class R.
- (a) 90% (d) 100% (c) 85% (d) 75%  
 (e) 120%
62. Find the respective ratio between average students in group A in class P and Q to total students in class R.
- (a) 7 : 32 (b) 7 : 12  
 (c) 7 : 23 (d) 35 : 184  
 (e) 45 : 184

63. There is total 34 girls in class P. If 12 girls are in group A, then find the no. of boys in group B and C together in class A.  
(a) 108 (b) 50 (c) 60 (d) 98  
(e) 118
64. What are the total no. of students in group B of all the classes?  
(a) 85 (b) 80 (c) 70 (d) 130  
(e) 100
65. Total no. of students in group A is how much more or less than that in group C.  
(a) 44 (b) 54 (c) 64 (d) 84  
(e) 74
66. Area of square is how much percent it's perimeter of side 8 m.  
(a) 100 (b) 200 (c) 150 (d) 50  
(e) 20
67. A shopkeeper sold an article K at 25% gain and another article P at 20% loss. Find her overall gain or loss percent if S.P. of both articles were same?  
(a) 3.5% gain (b) 3.5% loss  
(b) 4.5% gain (d) 2.44% loss  
(e) 2.44% gain
68. Find the probability of selecting two black honor cards form a pack of 52 cards?  
(a)  $\frac{14}{663}$  (b)  $\frac{61}{663}$  (c)  $\frac{132}{663}$  (d)  $\frac{28}{663}$   
(e) None of these
69. Aman is 20% more efficient than Ankit while Mohan is 40% less efficient than Aman. If Ankit alone can complete the work in 24 days then in how many days Aman and Mohan together can complete the work.  
(a) 10 days (b) 12.5 days  
(c) 15 days (d) 20 days  
(e) 24 days
70. A boat travels 32 km downstream and 20 km upstream in 9 hrs. The same boat travels 64 km, downstream and 24 km upstream in 14 hrs. Find the ratio between speed of boat in still water and speed of current?  
(a) 3 : 5 (b) 5 : 3  
(c) 2 : 5 (d) 5 : 2  
(e) 3 : 1
71. Despite of light rainfall in the (A)/national capital, the air (B)/quality remained in the 'very poor' category with (C)/an overall Air Quality Index (AQI) at 318. (D)/ No Error (E)  
(a) C (b) B (c) A (d) D  
(e) No Error
72. The program helps people (A)/recent released from prison (B)/figure out how they can play(C)/ a constructive role in society. (D)/ No Error (E)  
(a) A (b) B (c) C (d) D  
(e) No Error
73. I will be leaving on vacation in (A)/two days and will not be (B)/able to do much else accept put down (C)/ideas in my traveling notebook. (D)/ No Error (E)  
(a) D (b) C (c) B (d) A  
(e) No Error
74. The issue of making the Internet (A)/safety for kids has become(B)/ a bigger one as the Web (C)/ becomes ever more ubiquitous. (D)/ No Error (E)  
(a) A (b) D (c) C (d) B  
(e) No Error
75. Chile happen to be one of the most (A)/highly vaccinated countries in the (B)/world, with more than 90% of its (C)/ population fully vaccinated as of January. (D)/ No Error (E)  
(a) D (b) C (c) B (d) A  
(e) No Error
- DIRECTIONS (Qs. 76-80):** In each of the questions given below a sentence is given with three words in bold. Choose the option which gives the correct sequence of these words to make the sentence grammatically and contextually correct.
76. The changes **relating** (A) in the Central GST Act sections **proposed** (B) to input tax credits aim to restrict such credits unless suppliers have **remitted** (C) their share of taxes.  
(a) ACB (b) BAC (c) CAB (d) BCA  
(e) No rearrangement required
77. With coal stocks **running** (A) 'critically low', the aluminium industry has **precarious** (B) urgent government intervention to address the **sought** (C) situation.  
(a) ACB (b) BAC (c) CAB (d) BCA  
(e) No rearrangement required
78. Ms. Sitharaman said to **proliferation** (A) affordable broadband and mobile service **remote** (B) in rural and **enable** (C) areas.  
(a) ACB (b) BAC (c) CAB (d) CBA  
(e) No rearrangement required
79. The government seems to have **prioritised** (A) meeting its fiscal deficit targets rather than using this **inclusive** (B) to signal a path of employment-centred and **opportunity** (C) growth.  
(a) ACB (b) BAC (c) CAB (d) BCA  
(e) No rearrangement required
80. With the country yet again **unemployment** (A) with another wave of the COVID-19 pandemic, there are concerns about **grappling** (B) growth and increasing **faltering** (C).  
(a) ACB (b) BAC (c) CAB (d) BCA  
(e) No rearrangement required

### English Language

**DIRECTIONS (Qs. 71-75):** Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error the answer is (e). (Ignore errors of punctuation, if any.)



**DIRECTIONS (Qs. 81-88):** Given below is a paragraph that has blank spaces. Corresponding to each blank, five options are given, out of which only one is appropriate. Choose the option that fits most suitably in the given blank making sentence grammatically and contextually correct.

The Budget proposals seek to \_\_\_\_\_ (81) the economy by stepping up public investments, which will create demand for industrial inputs like cement, steel and capital goods, and generate jobs, Economic Affairs Secretary Ajay Seth said. Finance Minister Nirmala Sitharaman in her Budget 2022-23 \_\_\_\_\_ (82) public investment by as much as 35.4 per cent to Rs 7.5 lakh crore or 2.9 per cent of the GDP. Observing that direct support measures have only limited multiplier effect, Seth said steps which can have long to medium term impact are needed to \_\_\_\_\_ (83) the economy in a sustained manner. "When we are looking at economic management, it is not a one-year affair. One has to look at short, medium or long term. In the short term, what was needed has been \_\_\_\_\_ (84). "When we come to the medium and long term, we find that a direct income support that stimulates consumption demand has a very limited \_\_\_\_\_ (85) effect, whereas capital investment has a much larger, very strong multiplier effect, which lasts more than one year. "How it helps? It generates demand for the inputs which get into the \_\_\_\_\_ (86) — cement, steel, capital goods, construction machinery and so on," Seth told PTI in an interview. In view of the \_\_\_\_\_ (87) caused by the COVID-19 pandemic, the government provided direct support to people through various schemes like Jan Dhan, PM KISAN and Pradhan Mantri Garib Kalyan Yojana, he said, adding "in year two the need moderated and year three we expect that the need may not be there." By increasing public investment, the government has provided the signal that it is ready to \_\_\_\_\_ (88) funds into growth-oriented activities.

- |                    |                  |
|--------------------|------------------|
| 81. (a) Obliterate | (b) Quash        |
| (c) Annihilate     | (d) Apprehend    |
| (e) Stimulate      |                  |
| 82. (a) Accepted   | (b) Hiked        |
| (c) Egressed       | (d) Confronted   |
| (e) Exacerbated    |                  |
| 83. (a) Dawdle     | (b) Pillage      |
| (c) Boost          | (d) Supervene    |
| (e) Flout          |                  |
| 84. (a) Provided   | (b) Deployed     |
| (c) Waned          | (d) Fainted      |
| (e) Resolved       |                  |
| 85. (a) Myriad     | (b) Plausible    |
| (c) Multiplier     | (d) Multiplicity |
| (e) Exclusive      |                  |
| 86. (a) Investment | (b) Misadventure |
| (c) Ubiquitous     | (d) Delinquent   |
| (e) Extraneous     |                  |
| 87. (a) Manoeuvre  | (b) Resolve      |
| (c) Hardship       | (d) Reticent     |
| (e) Strife         |                  |
| 88. (a) Discord    | (b) Oblivious    |
| (c) Impropriety    | (d) Amity        |
| (e) Pump           |                  |

**DIRECTIONS (Qs. 89-93):** In the following question, sentences are given with a part in bold. The given phrase in the bold may or may not contain an error. The options following can replace the incorrect phrase. The correct phrase that is to be replaced will be your answer. If the sentences are correct then select 'No improvement required' as your answer.

89. The petition contended that the establishments and factories **were operates in violation of** environmental norms and affected public health.  
 (a) has been operating in violation of  
 (b) were operating in violation of  
 (c) were operates in violation on  
 (d) was operating in violation of  
 (e) No improvement required
90. The Delhi Commission for Women (DCW) **was issued a notice to the police** regarding the same and sought a detailed action taken report.  
 (a) had issued a notice to the police  
 (b) have issue a notice to the police  
 (c) has been issuing a notice to the police  
 (d) has issue a notice to the police  
 (e) No improvement required
91. Ravi was sent to Taloja Jail, where some of his co-accused **have now spend more than three years** without bail or trial.  
 (a) have now spent more than three year  
 (b) have now spend more then three years  
 (c) have now spent more then three years  
 (d) have now spent more than three years  
 (e) No improvement required
92. **With technology becoming smarter**, there has been a corresponding increase in cyber fraud, harassments and threats.  
 (a) On technology becoming smarter  
 (b) At technology becoming smarter  
 (c) On technology became smarter  
 (d) With technology has become smarter  
 (e) No improvement required
93. A good coach **had the skills** of his entire team accounted for, and knows where to put them for the best results.  
 (a) have the skills (b) have a skill  
 (c) has the skills (d) had skills  
 (e) No improvement required

**DIRECTIONS (Qs. 94-100):** Read the following passage and answer the given questions below it with the help of the information provided in it.

Screaming is a unique noise. Research suggests when we scream in fear, the noise serves the dual purpose of sharpening our own focus in the face of a threat as well as of warning others. In fact, our brains process screams in a unique way. Most noises we hear are delivered from our ear to an area of the brain devoted to analyzing a sound and breaking it into its component parts, such as gender, age, and tone; high or low; a brass, stringed or electric instrument — or several combined; a ribbit or a coo, and what animal makes that sound. This **indicates** that we differentiate all the noises we hear every day, even subconsciously.

A scream is different though, according to David Poeppel, PhD, a professor of psychology and neural science at New York University. Poeppel is the lead author of a 2015 study that looked into what happens in the body when people scream in fear. A scream goes straight from the ear to the amygdala, the part of the brain that processes fear and kickstarts the body's fight-or-flight response. The sound jolts our brains into increased alertness and analysis. This is especially true for screams when we're scared. These have a unique sound signature encompassed by the term "roughness." This roughness is what serves to alert others to danger. Humans and other animals scream for many reasons — in joy, in surprise, in fear. But we've evolved to be able to produce different shrieks and to be able to discern the difference when we hear them. (Incidentally, roughness is also why we find the sound of a baby crying and fingernails on chalkboards disturbing; both sounds have high roughness.) If we **focus on** the sounds that gain our attention, we will be able to tell which one is rough and which is not.

But what about people who have the opposite reaction when they're scared? What about the people who don't scream in fear, but become speechless in the face of a threat? This has been less studied, but it's likely a part of the third, overlooked response to terror: paralysis. Contrary to pop medicine, fight and flight aren't the only two reactions to something scary. Humans, like other animals, also evolved the option to freeze, or "play dead" in the face of a threat. This happens involuntarily, when the cerebellum, the part of the brain that regulates muscle activity, overpowers other terrified brain responses and basically shuts down all movement. Since screaming takes quite a few muscles (probably a little less than the 100 used for speaking), a person frozen in fear is rendered mute as well as immobile.

94. Choose the statement(s) which is/are TRUE based on the information given in the passage.

- (I) Our systems are built in a way that only allows us to scream in dangerous or threatening situations.
- (II) One of the ways humans tackle fear is by going into a freeze mode and acting dead which is a similar action to animals.
- (III) The brain sorts the noises we hear regularly on the basis of factors such as gender or high or low tone, age, etc.

- (a) Both II and III                      (b) Both II and I
- (c) Only III                              (d) Both I and III
- (e) Only I

95. According to the article, what contributes to alerting someone of the danger a person is in?

- (a) The gestures and expressions we make when we are confronted with a seemingly dangerous situation.
- (b) The scream one lets out when faced with danger holds an element of roughness which is crucial for letting others know of the possible danger.
- (c) Secretion of certain fluids and juices in our bodies by our organs play a part in accomplishing the above said thing.
- (d) The frequency of our screams, i.e., how often we shout in the given amount of time can alert others of the presence of danger.
- (e) None of the above

96. Among the following statements, choose option(s) which are FALSE in accordance with the information given in the passage.

- (I) The part of the brain that understands the fear of the situation and sends us into a full blown fight/flight response is called amygdala.
- (II) The number of muscles used in the process of speaking are over 100.
- (III) The purpose of a scream is to vent out your anger and release the emotions a person has been withholding inside.

- (a) Both I and II                      (b) Only III
- (c) Only II                              (d) Only I
- (e) Both II and III

97. Choose the option which states the reason for why some people go mute when they are scared.

- (a) The brain finds it hard to concentrate between how to combat the dangerous situation and figuring out how to talk which leaves a person mute.
- (b) Some people find that they don't want to express their feelings of terror and fright which is why they choose to remain quiet in those moments.
- (c) A certain part of the brain responsible for overlooking muscle activity takes over other responses of the brain and forces every movement of the body to shut down, including speech.
- (d) Being quiet has been found to help do away with the dangerous and harmful factors that a person might be facing at that exact moment.
- (e) None of the above

98. Among all the three responses to fear, how does a scream help us in possible dangerous situations?

- (a) The brain processes the scream in a part which helps activate our fight or flight mode which then helps us become aware and scan the situation.
- (b) Scream can notify the people in your surroundings like your neighbours or anybody in close vicinity to you.
- (c) When you scream, your vocal cords stretch and become flexible enough to scream louder and warn others of the situation.
- (d) None of the above
- (e) All of the above

99. Select the word which is similar in meaning to the highlighted word INDICATES.

- (a) announces                      (b) signals
- (c) bargains                          (d) divides
- (e) flows

100. Choose the phrase which will replace the phrase 'focus on' as highlighted in the passage.

- (a) drain out                          (b) tear apart
- (c) fire away                          (d) concentrate on
- (e) mix into

| ANSWER KEY |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1          | (b) | 11 | (b) | 21 | (b) | 31 | (e) | 41 | (c) | 51 | (d) | 61 | (d) | 71 | (c) | 81 | (e) | 91  | (d) |
| 2          | (e) | 12 | (d) | 22 | (e) | 32 | (c) | 42 | (a) | 52 | (b) | 62 | (e) | 72 | (b) | 82 | (b) | 92  | (e) |
| 3          | (d) | 13 | (b) | 23 | (a) | 33 | (d) | 43 | (e) | 53 | (e) | 63 | (d) | 73 | (b) | 83 | (c) | 93  | (c) |
| 4          | (a) | 14 | (b) | 24 | (d) | 34 | (d) | 44 | (c) | 54 | (d) | 64 | (d) | 74 | (c) | 84 | (a) | 94  | (a) |
| 5          | (b) | 15 | (c) | 25 | (b) | 35 | (a) | 45 | (b) | 55 | (b) | 65 | (b) | 75 | (d) | 85 | (c) | 95  | (b) |
| 6          | (c) | 16 | (c) | 26 | (c) | 36 | (c) | 46 | (d) | 56 | (b) | 66 | (b) | 76 | (b) | 86 | (a) | 96  | (e) |
| 7          | (c) | 17 | (b) | 27 | (a) | 37 | (a) | 47 | (c) | 57 | (c) | 67 | (d) | 77 | (a) | 87 | (c) | 97  | (c) |
| 8          | (e) | 18 | (a) | 28 | (e) | 38 | (b) | 48 | (e) | 58 | (b) | 68 | (a) | 78 | (d) | 88 | (e) | 98  | (a) |
| 9          | (d) | 19 | (c) | 29 | (d) | 39 | (d) | 49 | (a) | 59 | (e) | 69 | (b) | 79 | (a) | 89 | (b) | 99  | (b) |
| 10         | (e) | 20 | (b) | 30 | (e) | 40 | (e) | 50 | (b) | 60 | (a) | 70 | (e) | 80 | (d) | 90 | (a) | 100 | (d) |

## ANSWERS & EXPLANATIONS

Sol. (1-5) :

Row 1 (s)  $\frac{E}{\downarrow}$   $\frac{X}{\downarrow}$   $\frac{Y}{\downarrow}$   $\frac{Z}{\downarrow}$   $\frac{D}{\downarrow}$   $\frac{F}{\downarrow}$

Case I :

Row 2 (n)  $\frac{I}{\uparrow}$   $\frac{P}{\uparrow}$   $\frac{U}{\uparrow}$   $\frac{S}{\uparrow}$   $\frac{J}{\uparrow}$   $\frac{T}{\uparrow}$

1. (b) 2. (e) 3. (d) 4. (a) 5. (b)

Sol. (6-9) :

Case 1

6. (c) 7. (c) 8. (e) 9. (d)

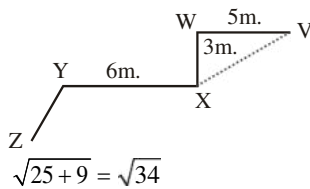
10. (e)  $\frac{D}{\downarrow}$   $\frac{I}{\downarrow}$   $\frac{A}{\downarrow}$   $\frac{G}{\downarrow}$   $\frac{O}{\downarrow}$   $\frac{N}{\downarrow}$   $\frac{A}{\downarrow}$   $\frac{L}{\downarrow}$

Sol. (11-15) :

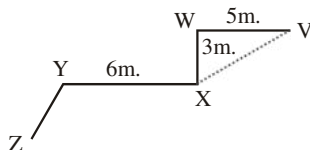
11. (b) 2 \$ P, 4 # F 12. (d) Z\$5 13. (b) '2'  
14. (b) 'P' 15. (c) '6'

Sol. (16-17) :

16. (c)



17. (b)



Sol. (18-20) :

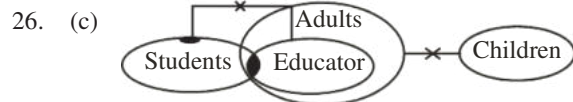
18. (a) I.  $A > X$  (True) II.  $Q > M$  (False)  
19. (c) I.  $M > G$  (False) II.  $M = S$  (False)  
20. (b) I.  $L < F$  (False) II.  $X > D$  (True)

Sol. (21-25) :

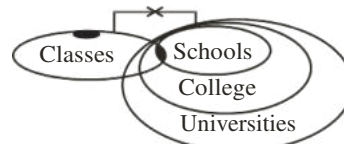
| Box |
|-----|
| U   |
| Y   |
| W   |
| T   |
| Z   |
| S   |
| X   |
| V   |

21. (b) 22. (e) 23. (a) 24. (d) 25. (b)

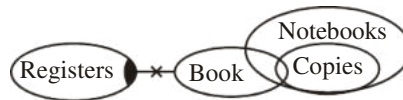
Sol. (26-29) :



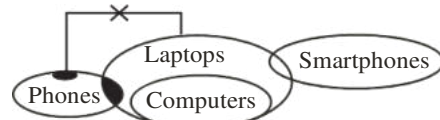
27. (a)



28. (e)



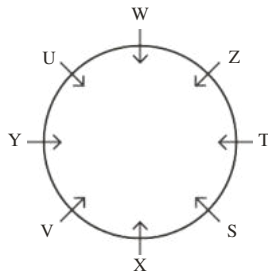
29. (d)



30. (e) After arranging, we get;

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 4 | 5 | 1 | 4 | 7 | 9 | 6 | 3 | 8 |
| 1 | 2 | 4 | 4 | 5 | 3 | 6 | 7 | 8 | 9 |

Sol. (31-35) :



31. (e) 32. (c) 33. (d) 34. (d) 35. (a)

Sol. (36-40):

36. (c) Pattern  $23 + 2, 33 + 3, 43 + 4, 53 + 5, 63 + 6, 73 + 7$   
130, 222, 350

37. (a) Pattern of series  
 $10 + 12 = 22$  ;  $12 + 22 = 34$   
 $22 + 34 = 56$  ;  $4 + 56 = 90$

38. (b) Pattern of series  
22, 30, 41, 56, 76, 102  
8 11 15 20 26  
3 4 5 6

Double difference

39. (d) Pattern of series  
 $1 \times 1 + 1 = 2$  ;  $2 \times 2 + 2 = 6$   
 $6 \times 3 + 3 = 21$  ;  $21 \times 4 + 4 = 88$   
 $88 \times 5 + 5 = 445$

40. (e) Pattern of series  
Take difference :-  
99 105 112 122 137 159  
6 7 10 15 22  
1 3 5 7

Double difference

Sol. (41-45):

41. (c)  $\frac{x \times 270}{100} = 564.3 - 540$  ;  $\frac{27x}{10} = \frac{24.3}{10} \Rightarrow x = 9$

42. (a)  $\frac{4}{x} = \frac{3+4+6+12}{1200}$   
 $\frac{4}{x} = \frac{25}{1200} \Rightarrow x = \frac{4 \times 1200}{25} = 192$

43. (e)  $x = \frac{72}{81} \times 512 \Rightarrow \frac{72 \times 512}{81} = 64$

44. (c)  $\frac{5+7+13}{2} = x + \frac{33}{10} \Rightarrow \frac{25}{2} = x + 3.3$   
 $\Rightarrow 12.5 - 3.3 = x \Rightarrow 9.2 = x$

45. (b)  $4x - 2 = \frac{4^5}{4^3} \times \frac{(4^3)^2}{4^4}$   
 $4x - 2 = 4^2 \times 4^2 = 41 \Rightarrow x - 2 = 1 \Rightarrow x = 3$

46. (d)  $x \times \frac{130}{144} = 390 \times \frac{704}{384}$  ;  $\frac{x}{144} = 3 \times \frac{704}{384}$   
 $x = \frac{3 \times 704 \times 144}{384} = 792$

47. (c)  $\sqrt{400} \times (8000)^3 = ? \times (4096)^4$   
 $\Rightarrow 20 \times 20 = x \times (84)^4 \Rightarrow 400 = x \times 8$   
 $\Rightarrow x = 50$

48. (e)  $70\% \text{ of } 90 + 92 = (32)^5 + x$

$\frac{70 \times 90}{100} + 81 = (2^5)^5 + x \Rightarrow 144 = 2 + x \Rightarrow x = 142$

49. (a)  $\frac{418}{352} \times 324 - 280 = x \Rightarrow \frac{19 \times 22}{19 \times 18} \times 324 - 280 = x$   
 $\Rightarrow 396 - 280 \Rightarrow x = 116$

50. (b)  $x \times 2 - 202 = 142 - 18 \times 22 \Rightarrow 2x = 400 - 200$   
 $\Rightarrow 2x = 200 \Rightarrow x = 100$

Sol. (51-55) :

51. (d) Total no. of students registered for CGL  
 $= 25 + 35 + 40 + 55 + 45 = 200$   
Total no. of students registered for CHSL  
 $= 20 + 30 + 35 + 45 + 20 = 150$   
Required % =  $\frac{200-150}{150} \times 100 = \frac{50}{150} \times 100 = 33\frac{1}{3}\%$

52. (b) Total students registered for all the three exams in 2015 and 2016 together  
 $= 15 + 25 + 20 + 25 + 35 + 30 = 150$   
Total students registered for all the three exams in 2017 and 2018 together  
 $= 35 + 40 + 35 + 45 + 55 + 45 = 255$   
Required ratio =  $\frac{150}{255} = \frac{10}{17}$

53. (e) Average number of student registered for MTS exam  
 $= \frac{15 + 25 + 35 + 45 + 40}{5} = \frac{160}{5} = 32$

Average number of students registered for CHSL exam  
 $= \frac{20 + 30 + 35 + 45 + 20}{5} = \frac{150}{5} = 30$

Required difference =  $32 - 30 = 2$

54. (d) Total students registered for a all the three exams in 2019 =  $40 + 45 + 20 = 105$   
Number of appeared students =  $\frac{80}{100} \times 105 = 84$   
Students appeared for MTS exam =  $\frac{84}{7} \times 3 = 36$

Required % =  $\frac{36}{40} \times 100 = 90\%$

55. (b) Total number of students register for all exams  
 $= 25 + 35 + 30 = 90$  Lakh

Required number of students

$$= 90 \times \frac{80}{100} \times \frac{75}{100} = 54 \text{ Lakh}$$

56. (b) Simple Interest =  $\frac{\text{Principal} \times \text{rate} \times \text{time}}{100}$

$$6000 = \frac{12000 \times r \times 5}{100} \Rightarrow r = 10\%$$

Compound Interest for 3yrs on same rate

$$A = P \left( 1 + \frac{r}{100} \right)^t ; A = 12000 \left( 1 + \frac{10}{100} \right)^3$$

$$A = 12000 \left( \frac{11}{10} \right)^3 \Rightarrow A = 15972$$

$$\text{C. I.} = A - P = 15972 - 12000 = \text{₹ } 3972$$

57. (c) Population of city in 2016

$$= \frac{2332000 \times \frac{100}{110} \times \frac{100}{80} \times \frac{100}{125}}{100} = 2120000$$

58. (b)  $B = \frac{125}{100}A$

$$B : A$$

$$\text{Efficiency} = 125 : 100$$

$$5 : 4$$

A can do a work in 20 days

$$\text{Total work} = \text{Efficiency} \times \text{time} = 4 \times 20 = 80$$

$$(A + B) \text{ work for 4 days} = (4 + 5) \times 4 = 36$$

$$\text{Remaining} = 80 - 36 = 44$$

Complete remaining work in 11 days

$$= \frac{44}{4} = 11 \text{ (efficiency)}$$

$$(A + B + C) = \frac{80}{(4 + 5 + 11)} = \frac{80}{20} = 4 \text{ days.}$$

59. (e) Ratio between profit share of Naveen to Naman

$$= 6000 \times 12 : 8000 \times 6$$

Let profit of Naveen and Naman are ₹ 3x and 2x respectively

$$\text{Required percentage} = \frac{3x - 2x}{3x} \times 100 = 33.33\% \text{ less}$$

60. (a) Ratio of their profit sharing

$$P : Q : R = 6 \times 3 : 7 \times 12 : 8 \times 7 = 9 : 42 : 28$$

$$\text{Annual profit} = 244900$$

Difference b/w P and R share of profit

$$= \frac{19}{79} \times 244900 = \text{₹ } 58900$$

Sol. (61-65) :

|       | Group A | Group B | Group C | Total |
|-------|---------|---------|---------|-------|
| P     | 60      | 40      | 80      | 180   |
| Q     | 30      | 50      | 80      | 160   |
| R     | 80      | 40      | 64      | 184   |
| Total | 170     | 130     | 224     | 524   |

61. (d) Required percentage =  $\frac{30}{40} \times 100\% = 75\%$

62. (e) Average students in group A of class P and Q

$$= \frac{60 + 30}{2} = 45$$

$$\text{Required ratio} = \frac{45}{184}$$

63. (d) Total girls in group B and C together = 34 - 12 = 22

Total boys in group B and C together on class P

$$= (180 - 60) - 22 = 98$$

64. (d) Total students in group B of all the classes = 130

65. (b) Required difference = 224 - 170 = 54

66. (b) Required percentage =  $\frac{8 \times 8}{8 \times 4} \times 100 = 200\%$

67. (d) Let S.P. of each article be ₹ 100.

$$\text{Total S.P.} = \text{₹ } 200$$

$$\therefore \text{C.P. of article K} = \frac{100}{125} \times 100 = \text{₹ } 80$$

$$\text{C.P. of article P} = \frac{100}{80} \times 100 = \text{₹ } 125$$

$$\text{Total C.P.} = \text{₹ } 205$$

Overall gain or loss percent

$$= \frac{205 - 200}{205} \times 100 = \frac{100}{41} = 2.44\% \text{ loss}$$

68. (a) Required probability =  $\frac{{}^8C_2}{{}^{52}C_2} = \frac{14}{663}$

69. (b) Efficiency :- Aman : Ankit

$$6 : 5$$

Efficiency :- Mohan : Aman

$$3 : 5$$

Combined efficiency

$$\text{Aman} \quad \text{Ankit} \quad \text{Mohan}$$

$$30 \quad 25 \quad 18$$

$$\text{Total work} = 25 \times 24 = 600$$

$$\text{Aman} + \text{Mohan} = \frac{600}{48} = 12.5 \text{ days}$$

70. (e) Let speed of boat in still water = x kmph and speed of current = y kmph.

$$\frac{32}{x + y} + \frac{20}{x - y} = 9 \quad \dots (i)$$

$$\frac{64}{x + y} + \frac{24}{x - y} = 14 \quad \dots (ii)$$

Solving (i) & (ii),

$$x = 6 \text{ km/h, } y = 2 \text{ km/h}$$

$$\text{Required ration} = 3 : 1$$

71. (c) The correct choice is option (c). In part (A), 'despite of' is incorrect as 'despite' is never followed by 'of'. Hence, option (c) is the right answer choice.

72. (b) The error lies in part (B) of the sentence. Here 'recently' should be 'recent' as we need adjective here while 'recently' is adverb. Hence, option (b) is the right answer choice.

73. (b) The error lies in part (C). Here 'accept' should be 'except'. Accept is contextually incorrect in the given sentence. accept means to agree to take something that somebody offers you except means not including



- somebody/something; apart from the fact that hence, option (b) is the right answer choice.
74. (c) The error lies in part (C). Here 'safety' should be 'safe' as we need an adjective here for the noun 'place'. Hence, option (c) is the right answer choice.
75. (d) The error lies in part (A). Here 'happen' should be replaced by 'happens' as to comply with the rule of subject verb agreement, we need singular verb for the singular subject (Chile).
76. (b) The correct sequence of words is BAC. Therefore, the correct sentence will be  
 "The changes **proposed (B)** in the Central GST Act sections **relating (A)** to input tax credits aim to restrict such credits unless suppliers have **remitted (C)** their share of taxes."  
 Hence, option (b) is the right answer choice.
77. (a) The correct sequence is ACB. Therefore, the correct sentence will be, "With coal stocks **running (A)** 'critically low', the aluminium industry has **sought (C)** urgent government intervention to address the **precarious (B)** situation."  
 Hence, option (a) is the right answer choice.
78. (d) The correct sequence is CBA. Therefore, the sentence will be, Ms. Sitharaman said to **enable (C)** affordable broadband and mobile service **proliferation (A)** in rural and **remote (B)** areas.  
 Hence, option (d) is the right answer choice.
79. (a) The correct sequence is ACB. Therefore, the sentence will be,  
 "The government seems to have **prioritised (A)** meeting its fiscal deficit targets rather than using this **opportunity (C)** to signal a path of employment-centred and **inclusive (B)** growth."  
 Hence, option (a) is the right answer choice.
80. (d) The correct sequence is BCA. Therefore, the correct sentence will be, "With the country yet again **grappling (B)** with another wave of the COVID-19 pandemic, there are concerns about **faltering (C)** growth and increasing **unemployment (A)**."  
 Hence, option (d) is the right answer choice.
81. (e) 'stimulate' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (e) is the right answer choice.  
 Obliterate: destroy utterly; wipe out.  
 Quash: reject as invalid, especially by legal procedure.  
 Annihilate: Destroy utterly, obliterate  
 Apprehend: arrest someone for a crime  
 Stimulate: raise levels of physiological or nervous activity in (the body or any biological system).
82. (b) 'Hiked' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (b) is the right answer choice.  
 Accepted: generally believed or recognized to be valid or correct.  
 Hiked: increased (something, especially a price) sharply.  
 Egressed: gone out of or leave (a place).  
 Confronted: came face to face with (someone) with hostile or argumentative intent.  
 Exacerbated: made (a problem, bad situation, or negative feeling) worse.
83. (c) 'Boost' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (c) is the right answer choice.  
 Dawdle: waste time; be slow.  
 Pillage: rob a (place) using violence, especially in wartime.  
 Boost: help or encourage (something) to increase or improve.  
 Supervene: occur as an interruption or change to an existing situation.  
 Flout: openly disregard (a rule, law, or convention).
84. (a) 'Provided' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (a) is the right answer choice.  
 Provided: made available for use; supply.  
 Deployed: brought into effective action.  
 Waned: (of the moon) have a progressively smaller part of its visible surface illuminated, so that it appears to decrease in size.  
 Fainted: lost consciousness for a short time because of a temporarily insufficient supply of oxygen to the brain.  
 Resolved: firmly determined to do something.
85. (c) 'Multiplier' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (c) is the right answer choice.  
 Myriad: Innumerable  
 Plausible: Credible  
 Multiplier: a person or thing that multiplies.  
 Multiplicity: Abundance, scores, mass  
 Exclusive: Complete
86. (a) 'Investment' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (a) is the right answer choice.  
 Investment: the action or process of investing money for profit.  
 Misadventure: death caused by a person accidentally while performing a legal act without negligence or intent to harm.  
 Ubiquitous: present, appearing, or found everywhere.  
 Delinquent: (typically of a young person) tending to commit crime, particularly minor crime.  
 Extraneous: irrelevant or unrelated to the subject being dealt with.
87. (c) 'Hardship' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (c) is the right answer choice.  
 Manoeuvre: a movement or series of moves requiring skill and care.  
 Resolve: settle or find a solution to (a problem or contentious matter).  
 Hardship: severe suffering or privation.  
 Reticent: not revealing one's thoughts or feelings readily.  
 Strife: angry or bitter disagreement over fundamental issues; conflict.
88. (e) 'Pump' fits most suitably in the given blank making sentence grammatically and contextually correct. Hence, option (e) is the right answer choice.  
 Discord: disagreement between people.

- Oblivious: not aware of or concerned about what is happening around one.  
 Impropriety: failure to observe standards of honesty or modesty; improper behaviour or character.  
 Amity: friendly relations.  
 Pump: move vigorously up and down.
89. (b) The given highlighted phrase is incorrect. The sentence is in past continuous tense hence 'operates' in statement is incorrect hence option (c) is also incorrect. In option (a), 'has' is incorrect because subject (establishments and factories) is plural here therefore option (d) is also incorrect. Hence correct choice is option (b).
90. (a) The highlighted phrase in the statement is incorrect as sentence is in Past indefinite. In option (b), 'have' is incorrect as subject (DCW) is singular. Option (c) is in Perfect continuous hence incorrect. In Option (d), 'issue' is incorrect as 'has+v3' is correct.
91. (d) In the highlighted phrase 'spend' is incorrect because sentence is in past tense and third form of spend is 'spent' therefore option (b) is also incorrect. In option (a), 'year' should be 'years'. In option (b), 'then' should be 'than' hence option (c) is also incorrect.
92. (e) The highlighted phrase in the sentence is correct hence no improvement required is correct choice.
93. (c) The correct replacement of the highlighted phrase is "has the skills" as the sentence follows the structure of present tense. Moreover, the subject of the sentence is singular. Hence, option (c) is the correct choice.
94. (a) The correct choice for the answer is option (a): Both II and III.  
 Statement II is true because it is stated in the last paragraph of the passage that "humans, like other animals, also evolved the option to freeze, or "play dead" in the face of a threat."  
 Statement III is true because in the first paragraph it says: Most noises we hear are delivered from our ear to an area of the brain devoted to analyzing a sound and breaking it into its component parts, such as gender, age, and tone; high or low; a brass, stringed or electric instrument — or several combined; a ribbit or a coo, and what animal makes that sound. Statement I is incorrect because in the last paragraph it says "Humans and other animals scream for many reasons — in joy, in surprise, in fear. " This tells us that there can be many reasons for humans screaming besides fear.  
 Hence, option (a) is the correct choice for the answer.
95. (b) The correct choice for the answer is option (b): The scream one lets out when faced with danger holds an element of roughness which is crucial for letting others know of the possible danger.  
 This answer is found in the second paragraph where it says: This is especially true for screams when we're scared. These have a unique sound signature encompassed by the term "roughness." This roughness is what serves to alert others to danger. The rest of the options are not mentioned anywhere in the passage given. Therefore they cannot be considered for the answer.  
 Hence, option (b) is the correct choice for the answer.
96. (e) The correct choice for the answer is option (e): Both II and III  
 Statement II is false as the passage says: Since screaming takes quite a few muscles (probably a little less than the 100 used for speaking), a person frozen in fear is rendered mute as well as immobile. Statement III is also false because it can be found in the article that: Research suggests when we scream in fear, the noise serves the dual purpose of sharpening our own focus in the face of a threat as well as of warning others.  
 The facts present in the passage help us figure out why the statements II and III are false.  
 Hence, option (e) is the correct choice for the answer.
97. (c) The correct choice for the answer is option (c): A certain part of the brain responsible for overlooking muscle activity takes over other responses of the brain and forces every movement of the body to shut down, including speech.  
 The answer is found towards the end of the last paragraph: This happens involuntarily, when the cerebellum, the part of the brain that regulates muscle activity, overpowers other terrified brain responses and basically shuts down all movement. Since screaming takes quite a few muscles (probably a little less than the 100 used for speaking), a person frozen in fear is rendered mute as well as immobile. All the other options are nowhere to be found in the above passage.  
 Hence, option (c) is the correct choice for the answer.
98. (a) The correct choice for the answer is option (a): The brain processes the scream in a part which helps activate our fight or flight mode which then helps us become aware and scan the situation. This answer is present in the second paragraph: A scream goes straight from the ear to the amygdala, the part of the brain that processes fear and kickstarts the body's fight-or-flight response. The sound jolts our brains into increased alertness and analysis.  
 Hence, option (a) is the correct choice for the answer.
99. (b) The correct choice for the answer is option (b): signals.  
 To signal means to convey information or instructions by means of a gesture, action, or sound. Indicate means to express an intention, opinion, or wish in an indirect way.  
 Hence, signals is the word most similar to indicates. To announce means to make a formal public statement about a fact, occurrence, or intention. To bargain means an agreement between two or more people or groups as to what each will do for the other. To divide means to separate or be separated into parts. Flows mean the action or fact of moving along in a steady, continuous stream.
100. (d) The correct choice for the answer is option (d): concentrate on.  
 Focus on or concentrate on have similar meanings which can be explained as to give most of your attention to someone or something.  
 The rest of the phrases are not applicable because they all have different meanings. Hence, they cannot be used to replace the given phrase.

# SBI Clerk (Junior Associates) Mains Solved Paper-2020

(Based on Memory)

Time : 160 minutes

Max. Marks : 200

## Reasoning Ability & Computer Aptitude

**DIRECTIONS (Qs. 1-5):** Study the following information carefully and answer the questions given below:

Thirteen friends I, J, K, L, M, N, O, P, Q, R, S, T and U are playing cards. They are sitting in such a way that some are sitting around a square and some are sitting around a circle and circle is inscribed in a square. Some of them are seated at the corner of the table while some of them have seated at the centre of the table. The friends who are sitting at the corner of the table facing outside the centre and those who are sitting at the middle facing the centre. Those who are sitting around the circle face inside the centre. They like different cloth brand viz. Puma, Reebok, Gucci, Prada, Arrow, Flying Machine, Chanel, Allen solly and Zara but not necessarily in the same order. Only two persons like the same cloth who is sitting around the square. N is third to the right of the one who likes Puma. Q sits two seats to the left of S. The person who likes Puma is sitting immediate neighbour of the person sits in the front of the one who likes Puma, same for Prada, Gucci and Reebok. R who likes Flying Machine sits second to the right of S. Q is sitting around the circle. Only two persons sit between the one who likes Puma and O. O does not like Puma. M likes Gucci is sitting third to the right of P who is an immediate neighbour of the person who likes Puma. P does not sit at any of the corners and does not like Reebok. U is not an immediate neighbour of Q. The one who likes Reebok sits immediate left of I, who does not sits any of the corners. The one who likes Arrow and Chanel are sitting next to each other. 3 likes Gucci and immediate left of N. K does not like Reebok. T neither likes Chanel nor Arrow. The one who likes Zara sits second to the right of the one who likes Arrow. Which of the following cloth brand?

1. Which of the following cloth brand?
  - (a) Puma (b) Reebok
  - (c) Gucci (d) Allen solly
  - (e) Prada
2. Four of the following are alike in a certain way and hence form a group. Which of the following does not belong to that group?
  - (a) O (b) N (c) M (d) K
  - (e) L
3. Who among the following likes Allen solly?
  - (a) S (b) U (c) T (d) O
  - (e) Q
4. How many persons are sitting between N and L?
  - (a) None (b) One (c) Two (d) Three
  - (e) Four
5. Who among the following likes the same cloth brand?
  - (a) K - P (b) L - M (c) K - M (d) P - N
  - (e) U - I

**DIRECTIONS (6-10):** In the following questions, the symbols @, #, %, \$ and \* are used with the following meaning as illustrated below-

M@N – M is neither greater than nor equal to N

M%N – M is neither smaller than nor equal to N

M#N – M is not greater than N

M\$N – M is not smaller than N

M\*N – M is neither smaller than nor greater than N

Now in each of the following questions assuming the given statement to be true, find which of the two conclusions I and II given below them is/are definitely true and give your answer accordingly.

**Statements:** – A@Y, Y%X, X\*W, W\$V

**Conclusions:** – (I) Y%V (II) A%V

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either conclusion I or II follows
- (d) Neither conclusion I nor II follow
- (e) Both conclusion I and II follows

**Statements:** – A%Y, Y\*X, X#W, W\*V

**Conclusions:** – (I) A%X (II) V\$Y

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either conclusion I or II follows
- (d) Neither conclusion I nor II follow
- (e) Both conclusion I and II follows

**Statements:** – A\*Y, Y\$X, X#W, W@V

**Conclusions:** – (I) V\*A (II) X%A

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either conclusion I or II follows
- (d) Neither conclusion I nor II follow
- (e) Both conclusion I and II follows

**Statements:** – A\$Y, Y\$X, X\*W, W@V

**Conclusions:** – (I) A\$V (II) V%X

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either conclusion I or II follows
- (d) Neither conclusion I nor II follow
- (e) Both conclusion I and II follows

**Statements:** – A%V, V@X, X%Y, Y\*W

**Conclusions:** – (I) X%W (II) Y@A

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either conclusion I or II follows
- (d) Neither conclusion I nor II follow
- (e) Both conclusion I and II follows

2020-2

SBI Clerk (Junior Associates) Mains Solved Paper-2020

**DIRECTIONS (Qs. 11-15):** Study the following information carefully to answer the given questions:

Seven photographer Mani, Neha, Om, Prakhar, Qasim, Rohan, and Shilpi live on seven different floors of a building, first floor is numbered as 1 and topmost floor is numbered as 7. They have different shapes of camera Boxes i.e. Heart, Cuboid, Conical, Cylindrical, Spherical, Oval, and Pyramid (not necessarily in same order). They also like different colours i.e. brown, pink, peach, yellow, green, black, and red (not necessarily in same order). Neha, who likes black colour, does not live on odd floor. Shilpi does not live on the first floor and doesn't like red and pink colour. The one who likes yellow colour lives on even numbered floor. The one who lives on 1st floor has conical shaped box and the one who has Spherical shaped box lives on an odd numbered floor. The one who lives just above Neha's floor likes green colour. Two photographer live between Qasim's floor and Mani's floor. Rohan, who has Oval shaped box lives on the floor which is immediately above Mani, who does not live on an odd-numbered floor. Rohan doesn't like pink colour. Prakhar lives neither on the first floor nor on the fourth floor. The one who lives just below Rohan's floor has Heart shaped box and the one who has Cuboid shaped box lives below Prakhar's floor. Three photographers live between Shilpi, who has Pyramid shaped box and Rohan. The one who has heart shaped box likes peach colour.

11. Who lives on the floor which is just above the one who has Oval shaped box?
  - (a) Rohan
  - (b) The one who has Cuboid shaped box
  - (c) Shilpi
  - (d) The one who has Spherical shaped box
  - (e) None of these
12. How many photographers live between Rohan's floor and the one who likes brown colour?
  - (a) None
  - (b) One
  - (c) Two
  - (d) Three
  - (e) None of these
13. Mani has which of the following shaped box?
  - (a) Spherical
  - (b) Oval
  - (c) Heart
  - (d) Cylindrical
  - (e) None of these
14. Who among the following lives on the topmost floor?
  - (a) Neha
  - (b) Shilpi
  - (c) Qasim
  - (d) Rohan
  - (e) None of these
15. Which of the following combinations is true?
  - (a) Conical-Prakhar-yellow
  - (b) Cuboid-Mani-Red
  - (c) Oval-Rohan-Red
  - (d) Cylindrical-Prakhar-Green
  - (e) None of these

**DIRECTIONS (Qs. 16-17):** In each question below is given a group of letters followed by four combinations of digits/symbols numbered (a), (b), (c) and (d). You have to find out which of the combinations correctly represents the group of letters based on the coding system and mark the number of that combination as your answer. If none of the combinations correctly represents the group of letters, mark (E), i.e. "None of these" as your answer.

**Letter:** W R A P G B M U S E F T N D

**Digit/Symbol Code:** \$ 8 ! 2 7 # 9 @ ? 5 1 3 4 \* 6

**Conditions:**

- (i) If the middle letter is a vowel, the codes for the first and fourth letters are to be interchanged.
  - (ii) If the first two letters are consonants, the first letter is to be coded as the code given for last letter.
  - (iii) If the first letter is a vowel and the last letter is a consonant both are to be coded as the code for the Consonant.
16. DRAP
    - (a) 2!82
    - (b) 8!22
    - (c) 28!2
    - (d) 282!
    - (e) None of these
  17. AUSEMR
    - (a) 198?@
    - (b) 8@?918
    - (c) 8198@?
    - (d) 8@?198
    - (e) None of these

**DIRECTIONS (Qs. 18-22):** Study the following information carefully to answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input: dust 31 service cleaner 22 47 wound 11 62 basic 35**

**Step I:** 11 dust 31 service cleaner 22 47 wound 62 35 basic

**Step II:** 11 31 dust service cleaner 22 47 62 35 wound basic

**Step III:** 11 31 47 dust cleaner 22 62 35 service wound basic

**Step IV:** 11 31 47 22 dust 62 35 cleaner service wound basic

**Step V:** 11 31 47 22 35 62 dust cleaner service wound basic

And step V is the last step of the above input. As per the rules followed in the above step, find out the appropriate step for the given output.

**Input: Set 17 48 bad pack 23 situation 61 25 puzzle 16**

18. Which element is exactly between the third element from left end and fifth element from right end in step IV?
  - (a) 48
  - (b) pack
  - (c) Set
  - (d) bad
  - (e) 16
19. In step II, '17' is related to 'pack' and 'Set' is related to '61'. In the same way 'situation' is related to?
  - (a) 25
  - (b) bad
  - (c) 23
  - (d) puzzle
  - (e) 48
20. In which of the following step the elements "48 25 situation" found in the same order?
  - (a) Step I
  - (b) Step IV
  - (c) Step III
  - (d) Step II
  - (e) no such step
21. In step II, what is the sum of fourth element from left end and third element from right end?
  - (a) 79
  - (b) 88
  - (c) 37
  - (d) 80
  - (e) 64
22. Which of the following element would be at the third to the left of the element which is sixth from the right end in step III?
  - (a) 61
  - (b) Set
  - (c) pack
  - (d) 16
  - (e) 48



**DIRECTIONS (Qs. 23-25):** In the following questions, the symbols #, &, @ and \$ are used with the following meanings as illustrated below. Study the following information and answer the given questions:

**Note:** The directions which are given indicates exact directions.  
 PPP#QQQ – PPP is in the south direction of QQQ.  
 PPP@QQQ – PPP is in the north direction of QQQ.  
 PPP&QQQ – PPP is in the east direction of QQQ.  
 PPP\$QQQ – PPP is in the west direction of QQQ.  
 Point AAA is @10m of point BBB. Point EEE is & 6m of point DDD. Point GGG is \$10m of point FFF. Point CCC is &20m of point BBB. Point EEE is #5m of point FFF. Point DDD is @5m of point CCC.

23. What is the direction of point FFF with respect to BBB?

- (a) #@ (b) @& (c) \$# (d) @\$  
 (e)

&# point PPP is & 8m of point BBB. What is the shortest

distance between PPP and DDD?

- (a) 16m (b) 25m (c) 12m (d) 13m  
 (e) 18m

25. What is the direction of point EEE with respect to AAA?

- (a) \$@ (b) \$& (c) #& (d) @\$  
 (e) #@

**DIRECTIONS (Qs. 26-30):** Study the following information carefully and answer the questions given below.

There are six student of different types subject viz., Biology, Physics, Chemistry, Mathematics, Computer and English in the Sharda university but not necessarily in same order. They attend their seminar at different timing in a single day. The duration of their seminar with the seminar is different. There is no gap between the seminar time of all student. The duration of seminar either full hour or half an hour but not in one third or one fourth of the hour. The Physics attend the seminar after the seminar time of Biology. The time duration of attending their seminar of the Biology and the English is same. The duration of seminar with seminar of Physics is one hour less than the duration of seminar with seminar of English. The Biology attends his seminar immediately after or immediately before Chemistry attends his seminar. The timing of English seminar is after 7:00 am. The seminar duration of Mathematics is half an hour more than the Physics. The Computer attends his seminar immediately before the Physics attend the seminar. The Mathematics attends the seminar before Biology but not immediately before. The total duration of the seminar with the seminar by all students is of 9:30 hours. The English seminar time is before Chemistry. The seminar time of Computer is 2:30 pm to 4:00 pm. The time duration of seminar of Chemistry and Mathematics is same. The seminar time of English is two hours. The seminar time of Mathematics is after 9:00 am in the morning.

26. Who among the following Student attend the seminar between seminar hours 11:00 am to 12:30 pm?

- (a) Biology (b) Physics  
 (c) Chemistry (d) Mathematics  
 (e) None of these

27. Who among the following Student attend the seminar immediately after Mathematics?

- (a) Chemistry (b) Biology  
 (c) Physics (d) Mathematics  
 (e) None of these

28. Who among the following attends seminar from 9:30 am -11:00 am?

- (a) Biology (b) Physics  
 (c) English (d) Computer  
 (e) None of these

29. Who among the following attends seminar just after the Biology?

- (a) Physics (b) Computer  
 (c) English (d) Chemistry  
 (e) None of these

30. What is the duration (in hours) of the Mathematics' seminar with the seminars?

- (a) 2.5 hour (b) 3 hours  
 (c) 3.5 hour (d) 1.5 hour  
 (e) 2 hours

**DIRECTIONS (Qs. 31-35):** Study the information and answer the given questions:

Ten persons are going for trip on 20th and 25th of different months- January, February, June, September, December

but not necessarily in the same order. All of them likes different cities- Agra, Bareilly, Lucknow, Bangalore, Faridabad, Goa, Pune, Gaya, Srinagar and Meerut. The one who goes on 20th September like Gaya. V goes on 25th of a month which having less than 31 days but not in February. Three persons are going in between V and W who like Faridabad. X are not going in September. Y and S are going in the same month. Y like Swimming. U goes immediate after V. Three persons are going in between U and T who neither like Agra nor Bareilly. One of them who goes in June like Pune. W are not going for trip on last day. The one who like Lucknow and the one who like Agra are not going for trip on same date. Two persons are going in between R and P who like Goa. R goes for trip before P and does not like Bareilly. Three persons are going in between the one who like Pune and the one who like Meerut. Two persons are going in between X and Q and none of them are going for trip in January and February. Y are not going for trip on an odd date. The one who like Lucknow are not going for trip on 20th of any month. T does not like Pune.

31. Who among the following like Meerut?

- (a) V (b) T (c) P (d) S  
 (e) None of these

32. The one who goes on 25th February like which of the following city?

- (a) Pune (b) Goa  
 (c) Lucknow (d) Bareilly  
 (e) None of these

33. Which of the following is true about U?

- (a) 25th -Lucknow (b) December-Swimming  
 (c) September- Gaya (d) 20th -Agra  
 (e) June- Pune

34. X goes which of the following month?

- (a) January (b) February  
 (c) June (d) September  
 (e) December



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35. How many persons are going in between T and Q?  
(a) Two (b) Four (c) Six (d) Three  
(e) More than Six
36. If ' $A \times B$ ' mean 'B is the sister of A', ' $A + B$ ' means 'B is the daughter of A', ' $A \div B$ ' means 'A is the wife of B', and ' $A-B$ ' means 'A is brother of B' then how will 'Q is mother of P' be denoted?  
(a)  $J - Q \div P + L$  (b)  $Q + P + M \times J$   
(c)  $J - Q \div L + P$  (d)  $Q - J \div L + P$   
(e) None of these
37. In which of the following expression will the expression ' $C3000 > A1000$ ' holds true?  
(a)  $C3000 \leq E5000 = F6000 > A1000 \leq D4000$   
(b)  $F6000 > E5000 = D4000 < A1000 \geq B2000 = C3000$   
(c)  $A1000 < B2000 = D4000 \geq E5000 = C3000$   
(d)  $E5000 < C3000 \geq D4000 > B2000 \geq A1000 = F6000$   
(e)  $C3000 \leq D4000 < E5000 \leq A1000 < B2000$ .

**DIRECTIONS (Qs. 38-42):** Study the following information carefully and answer the questions given below:

Seven employees Prakhar, Quan, Ram, Shyam, Tanu, Uday and Vijay had their offices situated along a straight row facing the north. They like different colours among Red, Blue, White, Black, Yellow, Pink and Green but not necessarily in the same order. The distance between the neighbouring offices was a successive integral multiple of 5km. The distance increased from left to right.

Prakhar's office was third to the left of the official who likes pink colour. Quan's office was 135km to the right of the official who likes black colour. Ram's office was exactly between Vijay's office and official who likes green colour. The official who likes yellow colour was to the immediate left of the official who likes white colour. The official who likes white colour was 115km to the left of Shyam's office. The official who likes pink colour was the neighbour of Shyam's office. The official who likes black colour was 85km away from Tanu's office. The official who likes red colour had office at one of the extreme ends. Vijay did not like blue colour. The distance between any two offices was less than 80 km.

38. Which colour does Uday likes?  
(a) Red (b) Blue (c) Yellow (d) Green  
(e) Pink
39. What is the distance between Ram and the employee who likes white colour?  
(a) 95km (b) 85km (c) 170km (d) 135km  
(e) 150km
40. How many offices are there between Prakhar and the official who likes blue colour?  
(a) None (b) One (c) Two (d) Three  
(e) Four
41. Who among the following sits to the immediate left of Tanu?  
(a) Prakhar  
(b) The one who likes white colour  
(c) Vijay  
(d) The one who likes blue colour  
(e) Quan
42. Who among the Following has distance of 165km between them?

- (a) Prakhar The one who likes white colour  
(b) Quan, Shyam  
(c) Tanu, The one who likes blue colour  
(d) Ram, The one who likes white colour  
(e) None of these

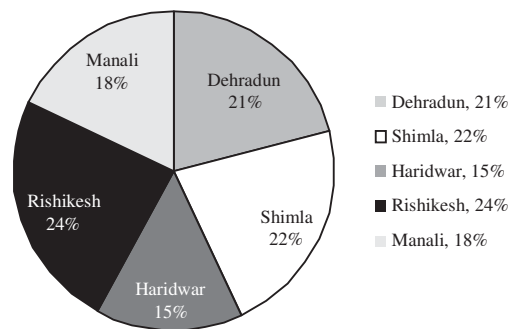
**DIRECTIONS (Qs. 43-45):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

- (a) If statements I alone is sufficient to answer the question, but statement II alone is not sufficient to answer the question.  
(b) If statement II alone is sufficient to answer the question, but statement I alone is not sufficient to answer the question.  
(c) If statement either I or II is sufficient to answer the question.  
(d) If both the statements I and II taken together are not sufficient to answer the questions.  
(e) If both the statements I and II taken together are sufficient to answer the questions.
43. Six girls DD, UU, KK, LL, MM and NN are sitting in linear row and facing north. Who among sits second to the left of KK?  
I. Two girls sit between LL and MM. One person sits between KK and LL. DD is not immediate neighbor of LL.  
II. DD sits third to the left of KK. UU is immediate neighbor of DD. KK does not sit extreme end of the row.
44. How many children are there between Priya and Gargi in a row of children?  
I. Priya is tenth from the right end in the row of 40 children.  
II. Gargi sits twelfth from left end of the row.
45. How is Fiza related to Ankit?  
I. Ankit is son in law of Deep. Bikki is daughter of Fiza.  
II. H is brother in law of Bikki.
46. If in the number 57672154, 2 is multiplied to each of the digit which is less than 4 and 3 is subtracted from each of the digit which is more than 4 and equal to 4 then how many digits are repeating in the number thus formed?  
(a) None (b) Four (c) One (d) Three  
(e) Two
47. **Statement:** A slump in home sales has pushed builders' inventory to "unsustainable levels" in the National Capital Region of Delhi, creating conditions for a real price correction that developers have so far avoided.  
Which of the following statements is definitely true on the basis of the given statement?  
(a) Demand for houses is quite low in most of the big cities.  
(b) The high inventory level will hamper the ability of launching new projects by the builders.  
(c) Builders in the market who have shown a good track record of delivering on time and on their promises have been able to garner sales even in this slow market.  
(d) Unless this unsold stock gets absorbed, it will be difficult for consumer confidence to come back in this market.  
(e) High prices have pushed most of the on-sale apartments beyond the reach of average home buyers.

48. **Statement:** According to the manpower Employment Outlook Survey, globally, Indian employers are the most upbeat on hiring plans in the fourth quarter ending December 2015.  
Which of the following can be an assumption in the given information? (An assumption is something that is supposed or taken for granted)
- (A) Decline in the profit margins of the company  
(B) Establishment of more branches by the MNCs in India  
(C) Maintenance of positive growth rate by the MNCs in India.  
(D) Increase in the growth of service sector in June 2015.
- (a) Only A and C (b) Only B and D  
(c) Only A and B (d) Only C and D  
(e) Only B and C
49. **Statement:** Persistent weakness in global demand and the lower value of oil products led India's merchandise exports to fall for the sixth straight month in May, while a decline in gold imports helped the trade deficit narrow to a three-month low.  
Which of the following inference drawn is probably false according to the above statement?
- (a) There will be softening of oil products in the global market.  
(b) Rupee will appreciate against the dollar.  
(c) There will be an increase in the collection of indirect taxes in the month of April and May.  
(d) There will be an increase in the domestic demand of gold and jewellery.  
(e) Only (b) and (d)
50. **Statement:** The water situation is grim as the total storage in 91 main reservoirs across the country has gone below the last 10-year average, says the report of the Central Water Commission (CWC).  
Which of the following may be the most probable reason for the fall in the level in reservoirs?
- (a) Less rainfall across the country  
(b) More use of water by the irrigation department  
(c) Depletion of ground level in the country  
(d) Less plantation of tree in the country  
(e) Wastage of water by the people of the country
51. If the expenditure of Scientist on Health and Food is 10% more than the expenditure on Health and Food by Doctor. Then, find amount of expenditure on Food and health by Scientist.  
(a) ₹ 12000 (b) ₹ 11000  
(c) ₹ 15000 (d) ₹ 25000  
(e) ₹ 13000
52. If saving of Doctor is  $(2/5)$  of the income left after spend on Health and Food. Then, find the value of  $x$ .  
(a) ₹ 10,000 (b) ₹ 12,000  
(c) ₹ 16,000 (d) ₹ 25,000  
(e) ₹ 20,000
53. If the saving of Scientist is 45% of his monthly income, then, find the monthly income of Scientist.  
(a) ₹ 22,000 (b) ₹ 15,000  
(c) ₹ 50,000 (d) ₹ 40,000  
(e) ₹ 20,000
54. If the saving of Scientist is 45% of his monthly income, find the sum of the monthly income of Doctor, Engineer and Scientist  
(a) ₹ 1,42,000 (b) ₹ 1,62,000  
(c) ₹ 1,20,000 (d) ₹ 2,00,000  
(e) ₹ 1,25,000
55. After spending the monthly income on Health and Food, remaining income of Engineer is his saving. Then, saving of Engineer is what percent of saving of Scientist.  
(a) 704% (b) 625% (c) 500% (d) 729%  
(e) 539%

**DIRECTIONS (Qs. 56-60):** Read the given graphs carefully and answer the questions that follow:

During the winter season, people from Mumbai are travelling to different holiday locations by booking tickets from travel the world.com. The total revenue generated by the website is ₹ 60,000.



| City      | Tickets Cancelled |
|-----------|-------------------|
| Dehradun  | 3                 |
| Shimla    | 12                |
| Haridwar  | 10                |
| Rishikesh | 13                |
| Manali    | 15                |

56. If the cost of each ticket on travelling to Haridwar is ₹ 600, then what will be the number of people who travelled? (Cancel tickets are not refundable)  
(a) 10 (b) 12 (c) 15 (d) 7  
(e) 8

### Quantitative Aptitude

**DIRECTIONS (Qs. 51-55) :** Read the table carefully and answer the questions given below :

Table represents the expenditure, saving and monthly income of Doctor, Engineer and Scientist.

| Persons/ Items                 | Doctor                | Engineer              | Scientist |
|--------------------------------|-----------------------|-----------------------|-----------|
| Expenditure on Health and Food | 20% of monthly income | 12% of monthly income |           |
| Saving                         | ₹ $x$                 | —                     | ₹ 9000    |
| Monthly income                 | ₹ 50,000              | ₹ 72,000              |           |

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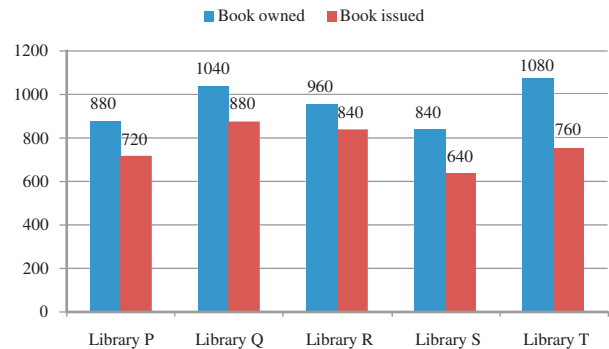
57. The total number of people that travelled to Shimla was 30 and to Rishikesh was 26 then calculate the average price per ticket  
 (a) ₹ 340.50 (b) ₹ 520.75  
 (c) ₹ 500 (d) ₹ 620.75  
 (e) ₹ 700
58. The cost of each ticket on travelling to Manali is ₹ 720 and no ticket was cancelled, then what will be the number of people who travelled?  
 (a) 7 (b) 8 (c) 10 (d) 12  
 (e) 15
59. What average no. of tickets booked per city if total tickets booked were 3000?  
 (a) 6 (b) 7 (c) 4 (d) 10  
 (e) 3
60. What is the average number of tickets cancelled per city?  
 (a) 10.6 (b) 10 (c) 12.7 (d) 11  
 (e) 17

**DIRECTIONS (Qs. 61-65):** Read the following Caselet DI carefully and answer the following questions:

3 cubes A, B and C are cut from the cubes P, Q and R respectively.  
 (i) The length of the side of cube A is given by the equation  $m^2 - 12m + 36 = 0$  and the length of the side of cube P is 1 cm more than cube A.  
 (ii) The length of the side of cube B is given by the equation  $n^2 + 21n - 46 = 0$  and the length of the side of cube Q is 2 cm more than cube B.  
 (iii) The length of the side of cube C is given by the equation  $r^2 - 10r + 25 = 0$  and the length of the side of cube R is 3 cm more than cube C.  
 Here m, n and r are in meter.

61. How many cubes of type P can be made by a cuboid of dimensions 49 m × 52 m × 56 m?  
 (a) 512 (b) 416 (c) 343 (d) 400  
 (e) 376
62. The average length of side of cube A, Q and R is how much percent more or less than the average length of side of cube P, B and C?  
 (a)  $28\frac{4}{7}\% \downarrow$   
 (b)  $14\frac{2}{7}\% \uparrow$   
 (c)  $28\frac{4}{7}\% \uparrow$  (d)  $14\frac{2}{7}\% \downarrow$   
 (e)  $15\% \uparrow$
63. What is ratio of volume of cube P and A together to the volume of cube Q and B together?  
 (a) 72 : 559 (b) 3 : 5  
 (c) 3 : 7 (d) 5 : 3  
 (e) 559 : 72
64. What is the ratio of total surface area of cube A to total surface area of cube R?  
 (a) 7 : 22 (b) 9 : 16 (c) 1 : 3 (d) 3 : 5  
 (e) 16 : 9
65. From the given cubes, which two cubes have equal side length?  
 (a) A and Q (b) B and P  
 (c) A and R (d) B and C  
 (e) None

**DIRECTIONS (Qs. 66-70):** The bar graph shown below indicate the number of books owned and the number of books issued by the 5 different libraries P, Q, R, S and T. Based on the given bar graph answer the questions given below:



- Total books owned = Book available + Book issued
66. Find the average number of books available in all 5 library  
 (a) 182 (b) 192 (c) 190 (d) 170  
 (e) 162
67. Find the ratio between the books available in Library P, R and S together to books available in Library Q and T together?  
 (a) 4 : 7 (b) 2 : 1 (c) 1 : 1 (d) 1 : 2  
 (e) 3 : 4
68. Books available in library P and S together is how much percent more or less than the books available in library Q and T together?  
 (a) 15% less (b) 10% more  
 (c) 10% less (d) 25% less  
 (e) 25% more
69. Books available in library S is how much percent of books owned by library Q and R together?  
 (a) 8% (b) 12% (c) 15% (d) 10%  
 (e) 20%
70. What is the ratio of total books owned by all the libraries together to total books issued by all the libraries together  
 (a) 5 : 4 (b) 4 : 5 (c) 3 : 5 (d) 5 : 3  
 (e) 5 : 4

**DIRECTIONS (Qs. 71-75):** Given below are two quantities numbered I and II.

Based on the given information, you have to determine the relation between the two quantities. You should use the given data and your knowledge of Mathematics to choose among the possible answers.

**Choose Options :**

- (a) Quantity I ≤ Quantity II  
 (b) Quantity I > Quantity II  
 (c) Quantity I ≥ Quantity II  
 (d) Quantity I < Quantity II  
 (e) Quantity I = Quantity II
71. **Quantity I :** The average of four number is 28. If one number is removed from its set then the average is reduced by 2, find the number.  
**Quantity II :** 30

72. **Quantity I :** Two dice are thrown simultaneously. What is the possibility of getting odd number on both the dice?

**Quantity II :**  $\frac{1}{5}$

73. **Quantity I :**  $P^2 - 39P + 378 = 0$   
**Quantity II :**  $Q^2 - 24Q + 108 = 0$

74. **Quantity I :**  $P^2 - 11P + 14 = 0$   
**Quantity II :**  $Q^2 - 20Q + 96 = 0$

75. **Quantity I :** A downstream speed is 20 Km/h and upstream speed is 10 Km/h. Distance travelled by a boat is 30 Km. Find the time taken by a boat to cover the distance.  
**Quantity II :** 4 hours.

**DIRECTIONS (Qs. 76-81):** Each question below is followed by two statements I and II. You have to determine whether the data given in the statements are sufficient for answering the question. You should use the data and your knowledge of Mathematics to choose the best possible answer.

- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.  
(b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.  
(c) Statement I or Statement II alone is sufficient to answer the question.  
(d) The data in both the statements I and II are not sufficient to answer the question.  
(e) The data in both the statements I and II together are necessary to answer the question.
76. Auto A is moving behind Auto B in the same direction and the distance between them initially is 40 km and the speed of Auto B is 50 km/h, then how long would Auto A take to cross Auto B.  
**Statement I :** The time taken by Auto B to cover a distance of 200 km is 4 hours.  
**Statement II :** If the Auto were moving in the opposite directions, towards each other, the relative speed of Auto A with respect to Auto B would have been 120 km/hr.
77. Shopkeeper sold two items of same marked price of 3000 at a profit of 25% and 20% respectively. Find the selling price of both the items together.  
**Statement I :** The selling price of item A and selling price of item B are in the ratio of 17 : 23 respectively.  
**Statement II :** The discount offered by the shopkeeper for item A is 25% and the ratio of the cost price of item A to the cost price of item B is 11 : 10 respectively.
78. Find the value of "a".  
**Statement I :** Rahul and Shivam started a business with the investment of money in the ratio 5 : a respectively. After 2 months, Garvit joined them in such a way that the ratio of the initial investment of Shivam and Garvit is 7 : 8 respectively. After 2 years, they received a total profit of ₹ 16800.  
**Statement II :** The profit share of Garvit after 2 years in ₹ 6000 out of total profit of ₹ 16800.

79. What is the value of the two-digit number?  
**Statement I :** The sum of the digits at unit's place and tenth's place is 12.  
**Statement II :** When the digits are interchanged then the number obtained is 36 larger than the original number.
80. What is the sum of m and n?  
**Statement I :**  $m^2 - 10m + 25 = 0$   
**Statement II :**  $n^2 - 14n + 49 = 0$
81. What is the area of a right-angled triangle PQR?  
**Statement I :** The lengths of sides PQ and QR of the triangle is 16 cm and 12 cm respectively.  
**Statement II :** The inradius of triangle PQR is 4 cm and the circumradius is 10 cm.
82. A box contains 21 mugs numbered 1 to 21. A mug is drawn and then another mug is drawn without replacement. What is the probability that both mugs are odd numbered?  
(a)  $\frac{2}{7}$  (b)  $\frac{8}{21}$  (c)  $\frac{3}{14}$  (d)  $\frac{5}{21}$   
(e) None of these
83. The average temperature from Monday to Wednesday is 36°C. When data for Thursday is included, the average increases by 1°C. What was the temperature on Thursday?  
(a) 37°C (b) 38°C (c) 39°C (d) 40°C  
(e) None of these
84. By how much is 3/4th of 52 is less than 2/3rd of 99?  
(a) 27 (b) 33 (c) 39 (d) 29  
(e) None of these
85. Monthly incomes of Mohit and Sohail are in the ratio of 4 : 3. Their expenses are in the ratio of 3 : 2. If each saves 6,000 at the end of the month, their monthly incomes respectively are (in ₹)  
(a) 24,000 and 18,000 (b) 28,000 and 21,000  
(c) 32,000 and 24,000 (d) 34,000 and 26,000  
(e) 30,000 and 28,000
86. Neelam's mathematics test had 70 problems carrying equal marks i.e., 10 Arithmetic, 30 Algebra and 30 Geometry. Although she answered 70% of the Arithmetic, 40% of the Algebra and 60% of the Geometry problems correctly. She did not pass the test because she got less than 60% marks. The number of more questions she would have to answer correctly to earn a 60% passing marks is :  
(a) 1 (b) 5 (c) 7 (d) 9  
(e) None of these
87. If the cost of a Banana is equal to the cost of a Mango. If the cost of a Banana increases by 4% and the cost of a Mango is increases by 5% then what percent more one should have to pay to purchase 5 Mangoes and 4 Bananas?  
(a) 4% (b) 4.55% (c) 5.55% (d) 5%  
(e) 6.25%
88. 8 members are to be selected from a group of 9 Boys and 7 Girls. In how many ways will the members with at most 3 Girls and atleast 4 Boys be selected?  
(a) 6435 ways (b) 6225 ways  
(c) 6472 ways (d) 7320 ways  
(e) None of these



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89. In a family of 4 persons,  $P$  and  $Q$  are husband and wife.  $R$  and  $S$  are daughter and son of  $P$  and  $Q$  respectively. The ratio of the present ages of mother and daughter is 9 : 1.  $S$ 's age 7 years ago was 3 years. The sum of the present ages of  $P$ ,  $Q$  and  $R$  is 100 years. At the time of the birth of  $R$ , the age of  $P$  was equal to the present age of  $Q$ . Find the present age of  $P$ .
- (a) 35 years (b) 40 years  
(c) 50 years (d) 45 years  
(e) None of these
90. The average weight of a office's 60 employees are 60 Kg. If two of the employee with weight 40% and 50% of 'a' leave the office and two new employees with weight  $a$  and  $a-34$  join the office, then the average weight of the office's employees are increased by 2 Kg. Find the value of  $a$ .
- (a) 90 Kg (b) 140 Kg  
(c) 100 Kg (d) 170 Kg  
(e) 78 Kg
91. A vessel contains mixture of Juice and Water in the ratio of 5 : 2 respectively. If 35 liters mixture taken out from the vessel and now the difference between Juice and Water in the remaining mixture is 141 liters, then find initial mixture in vessel?
- (a) 364 liters (b) 200 liters  
(c) 150 liters (d) 120 liters  
(e) None of these
92. Rahul sold his article at 25% profit. If he sold article for ₹ 60 more, he would have gained 35%; if he wants a profit of 70% then what should be the marked price of the article (in ₹)
- (a) 1750 (b) 1020 (c) 1680 (d) 2000  
(e) 1875
93. A shopkeeper prepared a list of 30 article's amount and average of their amount was 136. But amount of one article was written as 70 instead of 106. Find the correct average amount?
- (a) 128.4 (b) 140.4 (c) 131.2 (d) 130.02  
(e) 137.2
94. The length of sides  $PQ$ ,  $PR$  and  $QR$  of the triangle is 20, 25 and 15 cm respectively, then inradius of the triangle is what percent less than the circumradius of the triangle?
- (a) 60% (b) 40% (c) 37½% (d) 70%  
(e) 65%
95. Two cars  $C_1$  and  $C_2$  are going towards  $x$  to  $y$  and  $y$  to  $x$  respectively. After sometime they meet anywhere between  $x$  and  $y$  and after meeting car  $C_1$  reaches  $y$  in 1 hrs and  $C_2$  at 4 hrs. If the speed of car  $C_2$  is 60 Km/h then find the speed of car  $C_1$  in m/sec.
- (a) 100 m/sec. (b)  $\frac{150}{7}$  m/sec.  
(c) 20 m/sec. (d)  $\frac{50}{3}$  m/sec.  
(e)  $\frac{100}{3}$  m/sec.

**DIRECTIONS (Qs. 96-100):** Study the following information carefully and answer the questions given below:

In online products industry, the growth of the industry is driven by the increase in the number of people buying online and the increase in the number of people selling online.

In 2019, it was expected that total 200 million people would buy products online in India that would be 25% of the total population of India and 4% of the total population of India would sell products online. If in 2020, the population of India was increased by 10% over the previous year together with the total number of people who bought products online was increased by 25% over the previous year and the number of sellers remained constant then in the year 2020 the industry revenue was \$100 billion.

96. In 2019, what was the total number of people from India who sold the products online?
- (a) 1 million (b) 100 million  
(c) 50 million (d) 32 million  
(e) None of these
97. If the revenue per seller was same in 2019 as compared to 2020 then what was the revenue per seller (in \$) in 2019? (one billion is equal to 1000 millions)
- (a) 40 million (b) 200 million  
(c) 5 million (d) 2 billion  
(e) None of these
98. If in 2021, the number of people who will buy products online will increased by 40% over the previous year then in 2021, total how many people in million will buy product online?
- (a) 244 (b) 175 (c) 132 (d) 250  
(e) None of these
99. In 2021, the population of India was 1000 million then what was the percentage growth of India over the period 2019 to 2021?
- (a) 20% (b) 40% (c) 25% (d) 20%  
(e) None of these
100. It is assumed that in 2021, because of internet, 50% of the total population of India will buy products online. If in 2021, the population of India was increased by 10% over previous year then in 2021, total how many people will buy product in India?
- (a) 528 million (b) 543 million  
(c) 539 million (d) 433 million  
(e) None of these

### English Language

**DIRECTIONS (Qs. 101-107):** Read the following passage and answer the following questions.

Remote work is shaping up to be a major trend that will likely keep growing even after the pandemic ends. Remote working has several benefits, including flexibility, better diversity, location independence, no commute time, and more. But what about the drawbacks? Earlier, employees could disconnect from their work when they stepped out of the office. Now, the boundaries between personal and professional lives have blurred. Juggling between professional and personal tasks with no leisure time



can stress employees out and affect their mental health. If left unchecked, this stress can, in some cases, also increase an employee's risk for heart diseases. As the stress levels of individual employees increase, it becomes a \_\_\_\_\_

(A) effect that can lead to an obstructive work environment and weak professional relationships.

Work-life balance is crucial for employee satisfaction and overall business success as well. Organizations that neglect this aspect will have a hard time attracting and retaining talent. Individuals, especially Millennials and Gen Z, expect companies to respect their time and mental health. They want to be able to balance their family time, health, social life, hobbies, and more. It's even been shown that they prefer work-life balance over any financial incentives when choosing a company to work for.

To stay ahead of expectations, many organizations have begun initiatives to provide remote employees a smooth working experience. According to a recent research conducted by the University of Birmingham and the University of Kent, 73% of the employees surveyed either agreed or strongly agreed that their managers cared about the impact of work demands on their personal life during the pandemic. We will continue to see more organizations taking **significant** measures to improve their employees' work-life balance and enhance employee management.

It starts with creating a more **empathetic** work environment. Every workforce is unique, and it's up to the management to connect with their employees and hear their perspective before implementing necessary measures. Hybrid work, flexible holiday policies, floating holidays, wellness leaves, mental health days—these are all excellent places to start, but the degree to which an organization adopts them will depend on their employees' preferences. Empathetic leadership practices like these will also help employees adapt to the new normal working conditions and deliver their best.

101. Which of the following can be inferred from the passage?
- Employees are getting bored from the remote working so it will not be continued post-pandemic
  - Remote working has made it difficult to differentiate between professional and personal life
  - People hardly get time to relax thus they begin getting stressed out
- Only II
  - Both I and III
  - Only III
  - Both II and III
  - None of these
102. Why author is of the opinion that work-life balance is crucial?
- The work-life balance is necessary for satisfied employees as well as business success
  - Neglecting the balance will result in hard-time to attract and retain talents in the organizations
  - People can balance their professional and personal life
  - Both (a) and (b)
  - People deny work-life balance and go for financial incentives
103. How to create an emphatic work environment according to the author of the given passage?

- Establish a connection with the employees
- Hear and understand employees perspective
- Employee centric policies like wellness leaves keeping in mind their preferences

- Only II
  - Only I
  - Both I and II
  - Both I and III
  - All of the above
104. Which of the following cannot be inferred from the given passage?
- Neglecting employees stress management will have no adverse effect on the businesses
  - Significant measures can improve work-life balance of the employees
  - Companies haven't acquired needed initiatives for the remote employees
- Only II
  - Both I and III
  - Only III
  - Both II and III
  - None of these
105. Which of the following words is most similar in meaning with the given word as highlighted in the passage?
- Significant**
- Auditory
  - Unnecessary
  - Amazing
  - Outer
  - Momentous
106. Which of the following can fill in the blank (A) to make the sentence grammatically and contextually correct.
- Practice
  - Intend
  - Ripple
  - Concern
  - Approached
107. Which of the following words is most opposite in meaning with **EMPHATIC** as highlighted in the passage?
- Unconditional
  - Hesitant
  - Outright
  - Definite
  - Conclusive

**DIRECTIONS (Qs. 108-115):** Read the following passage and answer the following questions.

A gig economy consists of people carving a career path through freelance and contractual work – wherein the individual is paid per job, or 'gig', as opposed to receiving a regular salary or wage from an employer. While the term 'gig economy' came into being very recently, there has always been a freelance industry shrouded by mammoths of the business world. As a matter of fact, before the industrial revolution and the rise of the employee-employer contract, this arrangement was prototypical. Today, most people look at it as the much desired antidote to a monotonous nine-to-five existence, allowing them to work with freedom and flexibility. There also exists a certain section who **despises** the uncertain nature of gig work and its potential for exploitation. That being said, currently the world is steadily moving towards the gig economy and while it seems like the ideal **contingency** plan to tackle anything remotely similar to the ominous pandemic that brought the world to a standstill, we can't help but wonder, what does the future hold for a gig workforce.

The rise of the gig economy has made it easier for people to take charge of their work lives, giving them the freedom to work the way they want to. This very characteristic of the gig economy can be greatly tempting for creative or skilled professionals such

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as content writers, web developers, etc. who can maximize their skills through an unrestrained, unrestricted work set up. Further, if we try to understand basic human nature, it becomes evident that the lack of autonomy, ownership and flexibility can lead to people feeling **disgruntled** and detached from their work. This is a clear indicator of the fact that full-time employment isn't for everyone. For most people, the deal-breaker in a full-time employment set up would be that the employer principally owns the employee's skills; employers believe they have the right to use them as they desire and as in line with the employment contract and job designation. In essence, the employer buys the rights to an individual's skills for a monthly fee which is the salary. However, on the flipside, the gig economy allows an individual to take absolute charge of their skills and knowledge. The future of Gig work holds great potential because it tends to be more meaningful and rewarding in more than just the monetary aspect. The simple fact that you are building your own brand instead of someone else's makes this type of work **intrinsically** motivating in the long run. Unlike traditional employment, gig work focuses on results instead of embroiling processes. Gig workers or freelancers are evaluated and paid based on their ability to deliver results. How they achieve their targets is completely up to them. This allows freelancers to tap into their natural reserves of perception, imaginative thinking and self-reliance.

Also, the biggest advantage of gig work lies in its integration with technology because needless to say, the future of India's start-ups and its gig economy lies in digital innovations and a robust digitized ecosystem. A major part of the gig economy, digital marketplaces are now signing up demand-driven service providers skilled in niche areas such as beauty, fitness, plumbing, electrical repairs, etc. and offer these services to consumers on a contractual basis as per requirements. This business model allows for the service providers to communicate with the end users directly through the app according to their terms and conditions. This opens up a world of opportunities for the freelance workforce.

108. Which of the following can be inferred about 'gig economy' as discussed in the given passage?
- (I) People do freelancing and work on contractual basis  
(II) The salary is not regular in a gig economy  
(III) It helps people to escape from monotonous 9 to 5 work routine
- (a) Only II (b) Both I and III  
(c) Only III (d) Both II and III  
(e) All of the above
109. Which of the following correctly states the benefits of gig economy?
- (I) People can manage their work life freely  
(II) The work set up is unrestricted  
(III) Freedom to work is favorable for skilled and creative professionals  
(IV) The individuals entirely own their knowledge and skills
- (a) I, III and II (b) I, III and IV  
(c) I, II, and IV (d) all of the above  
(e) Only I and IV

110. Why the author is of the opinion that full-time employment is not for everyone?
- (a) The employer establishes its authority over employees' skills  
(b) The employer thinks that he gets the right to mend and use the employees' skills as per his needs and desires  
(c) Both (a) and (b)  
(d) The monthly fees which we receive as a salary gives the employer the mandate to buy our skills  
(e) All of the above
111. How the writer sees future of the Gig work?
- (a) The gig work is more meaningful and rewarding irrespective of the financial earning  
(b) One will build his own recognition rather than someone else's  
(c) It is more focused on outcomes than rigorous processes  
(d) All of the above  
(e) None of these
112. In what manner, gig work will open up an opportunity rich world for freelance workers?
- (a) It integrates better with technology and digital innovations  
(b) The digital marketplaces are expanding their functioning on contractual basis  
(c) Digitized work platforms will be advantageous for corporate giants  
(d) The service providers can directly contact with consumers via mobile apps  
(e) all (a), (b), and (d)

**DIRECTIONS (Qs. 113-114):** Which of the following is most similar in meaning with the given word as highlighted in the given passage?

113. **Contingency**
- (a) Instance (b) Possibility  
(c) Projection (d) Constant  
(e) Affected
114. **Disgruntled**
- (a) Straighten (b) Conceptualized  
(c) Courteous (d) Aggrieved  
(e) Passages
115. Which of the following is the most opposite in meaning with **INTRINSICALLY** as highlighted in the given passage?
- (a) Established (b) Conducted  
(c) Acquired (d) Engaged  
(e) Scarcity

**DIRECTIONS (Qs. 116-120):** In the following passage, some of the words have been left out, each of which is indicated by a letter. Find the suitable word from the options given against each letter and fill up the blanks with appropriate words to make the paragraph meaningful.

Reversing two days of heavy losses, the Sensex posted its biggest jump in almost four months on Tuesday as investors returned to buying mode amid expectations of fresh \_\_\_\_\_ (116) in the U.S. and other economies. A recovering rupee and persistent foreign capital inflows further \_\_\_\_\_ (117) sentiment, traders said. The 30-share S&P BSE Sensex

soared 834.02 points, or 1.72%, to close at 49,398.29. Only three Sensex components closed in the red — Tech Mahindra, ITC and M&M, shedding up to 0.54%. Global equities were on a/an \_\_\_\_\_ (118) after U.S. President-elect Joe Biden's nominee for Treasury Secretary, former Federal Reserve chair Janet Yellen \_\_\_\_\_ (119) for more measures to fight the recession and avoid an even worse downturn. In testimony prepared for her confirmation hearing on Tuesday before the Senate Finance Committee, Ms. Yellen said more aid is needed to get COVID-19 vaccines distributed and help families struggling with job losses stay fed and \_\_\_\_\_ (120).

116. (a) Render (b) Generate  
(c) Stimulus (d) Range  
(e) Labor
117. (a) Conferred (b) Granted  
(c) Dwelled (d) Entertained  
(e) Buoyed
118. (a) Y (b) Earnest  
(c) Upswing (d) Wandering  
(e) Insisting
119. (a) Batted (b) Convinced  
(c) Knighted (d) Inspired  
(e) Conventional
120. (a) Skilled (b) Harrying  
(c) Reflected (d) Housed  
(e) Furnished

**DIRECTIONS (Qs. 121-125):** In the following passage, some of the words have been left out, each of which is indicated by a letter. Find the suitable word from the options given against each letter and fill up the blanks with appropriate words to make the paragraph meaningful.

India is considering revising its foreign investment rules for e-commerce, three sources and a government spokesman told Reuters, a move that could \_\_\_\_\_ (121) players, including Amazon.com Inc., to restructure ties with some major sellers. The government discussions \_\_\_\_\_ (122) with a growing number of complaints from India's bricks-and-mortar retailers, which have for years accused Amazon and Walmart Inc.-controlled Flipkart of creating complex structures to bypass federal rules, allegations the U.S. companies deny. India only allows foreign e-commerce players to operate as a marketplace to connect buyers and sellers. It \_\_\_\_\_ (123) them from holding inventories of goods and directly selling them on their platforms. Amazon and Walmart's Flipkart were last hit in December 2018 by investment rule changes that \_\_\_\_\_ (124) foreign e-commerce players from offering products from sellers in which they have an equity stake. Now, the government is considering adjusting some provisions to prevent those arrangements, even if the e-commerce firm holds an indirect stake in a seller through its parent, the sources said. The changes could \_\_\_\_\_ (125) Amazon as it holds indirect equity stakes in two of its biggest online sellers in India.

121. (a) T (b) Intimate  
(c) Compel (d) Undertake  
(e) Assert
122. (a) Despair (b) Justify  
(c) Manifest (d) Scale  
(e) Coincide

123. (a) Prohibits (b) Persists  
(c) Pleads (d) Weighs  
(e) Inclines
124. (a) Attributed (b) Exerted  
(c) Oppressed (d) Barred  
(e) Contended
125. (a) T (b) Rail  
(c) Hurt (d) Boast  
(e) Lofty

**DIRECTIONS (Qs. 126-130):** In each of the following questions, choose the sentence/s that has/have the correct usage of the highlighted and underlined idiom.

126. (I) The mugger **showed a clean pair of heels**, skittering down a side alley and escaping out of sight.  
(II) As makers of quality software, they've **shown a clean pair of heels** to the rest of the industry  
(III) They ran after her, but she **showed them a clean pair of heels**.  
(a) Only I (b) Both I and III  
(c) Both II and III (d) Only II  
(e) All of these
127. (I) Can you please **bury the hatchet** and make up with your sister already? I can't take the constant fighting.  
(II) She thought she **buried the hatchet** when she saw John slinking away from the scene of the crime.  
(III) He gave a very diplomatic explanation, but if you **bury the hatchet**, it seems like he was fired for political reasons.  
(a) Only I (b) Both I and II  
(c) Both I and III (d) Only III  
(e) All of these
128. (I) I had a **chewing the cud** this morning when a tractor trailer unexpectedly swerved into my lane.  
(II) I've been **chewing my cud for days**, but I still haven't decided whether I'm taking the job or not.  
(III) Sometimes you just need to stop **chewing the cud** and make a decision.  
(a) Only III (b) Only I  
(c) Both II and I (d) Both II and III  
(e) All of these
129. (I) I do well in this class, but I've been \_\_\_\_\_ **at sea** since we started.  
(II) Bill was **at sea** over the calculus problem.  
(III) Mom sounded like she is **at sea**, so you better clean your room.  
(a) Only III (b) Only II  
(c) Both II and III (d) Both I and II  
(e) All of these
130. (I) Peter only comes out for a drink **once in a blue moon** now that he has kids.  
(II) She only visits her \_\_\_\_\_ **once in a blue moon**.  
(III) Only **once in a blue moon** do properties of this quality become available.  
(a) Only III (b) Both I and III  
(c) Both II and III (d) Both I and II  
(e) All of these

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**DIRECTIONS (Qs. 131-135):** Each of the following question has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits in the context of the sentence.

131. Despite the \_\_\_\_\_ negative support, the expenditure of the Central and State governments on agriculture has increased \_\_\_\_\_ since 2000.  
(a) Multitude, Eventually (b) Evident, Usually  
(c) Overall, Substantially (d) Wander, Exceptionally  
(e) Asserted, Formally
132. Privacy is better addressed by stronger \_\_\_\_\_ conditions on data sharing and better security tools being adopted by the \_\_\_\_\_ that secure user data.  
(a) Perpetual, Devices  
(b) Contractual, Applications  
(c) Factual, Solutions  
(d) Mutually, Slewed  
(e) Habitually, Vagaries
133. While the debate on \_\_\_\_\_ of the death penalty goes on, the delay in the execution of death row convicts coupled with long years of \_\_\_\_\_ confinement leads to psychological trauma for them.  
(a) Automation, Enervate (b) Wheedle, Apostate  
(c) Emolument, Ungainly (d) Abolition, Solitary  
(e) Impiety, Decadence
134. India's vaccination drive is backed by its \_\_\_\_\_ advantage of having the largest vaccine manufacturing capacity in the world and a rich experience of mass \_\_\_\_\_ drives against polio and measles.  
(a) Comparative, Inoculation (b) Avocation, Circumvent  
(c) Collation, Haggling (d) Cohort, Savant  
(e) Adjure, Uction
135. The \_\_\_\_\_ yardsticks to look at for investing include the current valuations and future earnings \_\_\_\_\_ of underlying companies.  
(a) Clarion, Acrimony (b) Turbid, Cupidity  
(c) Disaffected, Expatiating (d) Didactic, Sinuous  
(e) Relevant, Trajectory

**DIRECTIONS (Qs. 136-140):** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

136. I myself am very proud (A)/and excited because (B)/our Kamala Harris is (C)/ becoming the first Vice-President of US.(D)/ No Error (E)  
(a) A (b) B (c) C (d) D  
(e) No Error
137. The Port Authority Bus Terminal in Midtown (A)/has a reputation of being the (B)/most squalid and overcrowd (C)/transportation hub in New York.(D)  
(a) A (b) B (c) C (d) D  
(e) No Error
138. The Budget for the next (A)/financial year is likely to laid (B)/down a roadmap to normalise fiscal (C)/deficit in the next two to three years. (D)/ No Error (E)  
(a) A (b) B (c) C (d) D  
(e) No Error

139. The vessel will have a pair of solid rocket (A)/boosters whose design has already been (B)/ tested but there's less that (C)/ can go wrong with solid boosters. (D)  
(a) A (b) B (c) C (d) D  
(e) No Error
140. Avionics and subsystems are (A)/being debugged in the (B)/surrogate aircraft before being (C)/loaded into the actual bomber. (D)/ No Error (E)  
(a) A (b) B (c) C (d) D  
(e) No Error

### General/Financial Awareness

141. Which bank has launched a new entry-level credit card named ACE Credit Card, with a focus on increasing participation of users in the digital economy partnership with Google Pay?  
(a) ICICI Bank (b) Canara Bank  
(c) IndusInd Bank (d) Axis Bank  
(e) None of these
142. Which Payments bank has partnered NSDC to train rural youth?  
(a) Airtel Payments Bank  
(b) Paytm Payments Bank  
(c) India Post Payments Bank  
(d) Jio Payments Bank  
(e) None of these
143. Who has been appointed as the Chairman of the Telecom Regulatory Authority of India (TRAI)?  
(a) Shashi S. Vempati (b) Sanjay Kumar Mishra  
(c) PD Vaghela (d) Ajay Kumar Bhalla  
(e) None of these
144. The Serum Institute of India (SII) has signed an agreement with UNICEF & GAVI to supply Pneumococcal Conjugate Vaccine (PCV) to low-income countries. Where is SII located?  
(a) Mumbai (b) New Delhi  
(c) Pune (d) Kolkata  
(e) None of these
145. Rajat Bhatia, who announced his retirement, is associated with which sports?  
(a) Football (b) Billiards  
(c) Cricket (d) Squash  
(e) None of these
146. Which day is observed across the globe on the Death Anniversary of Mother Teresa?  
(a) International Day of Charity  
(b) World Peace Day  
(c) International Day of Humanity  
(d) International Day of Compassion  
(e) None of these
147. Who has authored the book titled '10 Rules of Successful Nations'?  
(a) Amit Shah (b) Ranjan Gogoi  
(c) Ruchir Sharma (d) Roopa Pai  
(e) None of these
148. Which public sector bank has launched 'Insta Click Savings Account', a 100 per cent paperless digital self-assisted online savings account?  
(a) IDBI (b) SIDBI  
(c) Bank of Baroda (d) ICICI  
(e) None of these



149. Which insurance company has launched first-of-its-kind insurance product called 'Shagun – Gift an Insurance', which is a unique gift of Personal Accident policy?  
 (a) SBI General Insurance  
 (b) LIC  
 (c) ICICI Lombard  
 (d) General Insurance Company Ltd  
 (e) None of these
150. Which of the following banks has launched 'Home Utsav', a virtual property exhibition that digitally showcases real estate projects by renowned developers from key cities across the country?  
 (a) IDBI (b) SIDBI (c) HDFC (d) ICICI  
 (e) None of these
151. Which of the following banks has launched 'Shaurya KGC (Kisan Gold Credit) Card' for the armed forces?  
 (a) IDBI (b) SIDBI (c) HDFC (d) ICICI  
 (e) None of these
152. Harley-Davidson to shut down its manufacturing plant in India \_\_\_\_\_.  
 (a) Gurugram (b) NOIDA  
 (c) Pune (d) Hyderabad  
 (e) None of these
153. What is the stake of State Bank of India in the Jio Payments Bank?  
 (a) 10 per cent (b) 25 per cent  
 (c) 30 per cent (d) 49 per cent  
 (e) None of these
154. On 8th October Indian Air Force celebrated its \_\_\_\_\_ anniversary?  
 (a) 88th (b) 70th (c) 77th (d) 73rd  
 (e) None of these
155. How many deputy governors are there in RBI?  
 (a) 2 (b) 3 (c) 4 (d) 5  
 (e) None of these
156. The Central Board of Secondary Education (CBSE) has partnered with which social media platform to launch a free and comprehensive training program for teachers and students of its affiliated schools in the first phase?  
 (a) Google (b) Facebook  
 (c) Microsoft (d) Twitter  
 (e) None of these
157. The "Framework for authorisation of pan-India Umbrella Entity for Retail Payments" released by RBI what should be the minimum paid-up capital of the umbrella entity?  
 (a) Rs. 100 crore (b) Rs. 300 crore  
 (c) Rs. 500 crore (d) Rs. 1000 crore  
 (e) None of these
158. The PM KUSUM scheme has been extended to allow how much farmers to set up standalone solar pumps?  
 (a) 10 lakh (b) 20 lakh  
 (c) 30 lakh (d) 40 lakh  
 (e) None of these
159. India ranked at \_\_\_\_\_ position on the Global Economic Freedom Index 2020.  
 (a) 105th (b) 100th  
 (c) 95th (d) 110th  
 (e) None of these
160. The 'Karmayogi' which was recently in news is related to  
 (a) Farmers (b) Swachhta Karmcharis  
 (c) Rural Entrepreneurship (d) Civil services reforms  
 (e) None of these
161. Where is the HQ of Federal bank?  
 (a) Uttar Pradesh (b) Bihar  
 (c) Kerala (d) Madhya Pradesh  
 (e) None of these
162. Autism Awareness Day is celebrated on ----  
 April (a) 7 (b) 8 April  
 April (c) 9 (d) 2 April  
 (e) None of these
163. The International Day of Charity is an international day observed annually on---  
 (a) 1 September (b) 5 September  
 (c) 2 September (d) 3 September  
 (e) None of these
164. What is the Share of Central Government in RRB?  
 (a) 60% (b) 50% (c) 70% (d) 80%  
 (e) None of these
165. Book – '10 rules of successful nation' is written by---  
 (a) Ruchir Sharma (b) Prachir Sharma  
 (c) Ranveer (d) Chetan Sharma  
 (e) None of these
166. Piy is launched by which bank?  
 (a) SBI (b) PNB  
 (c) ICICI Bank (d) HDFC  
 (e) None of these
167. Who is the new Chairman of TRAI?  
 (a) PD Vaghela (b) AD Vaghela  
 (c) BD Vaghela (d) ND Vaghela  
 (e) None of these
168. Minimum Paid up capital..... for Retail Banking under New Umbrella Entity (NUE).  
 (a) ` 800 crore (b) ` 700 crore  
 (c) ` 600 crore (d) ` 500 crore  
 (e) None of these
169. Where is the HQ of UNDP?  
 (a) New York (b) Maxico  
 (c) New Delhi (d) London  
 (e) None of these
170. Company which manages Assets is called ..  
 (a) AMC (b) DMC (c) CMC (d) VMC  
 (e) None of these
171. Atal Pension Yojana is regulated by ---  
 (a) PFRDA (b) SBI (c) RBI (d) LIC  
 (e) None of these
172. Mudra is the subsidiary of which organization?  
 (a) RBI (b) SBI (c) SIDBI (d) LIC  
 (e) None of these
173. Who is the Current head of Tesla?  
 (a) Elon Reeve Musk (b) Daniel Zhang  
 (c) Jeff Bezos (d) Lisa Su  
 (e) None of these
174. Retail inflation was ---- percent in rural India  
 (a) 5.4 (b) 6.7 (c) 7.2 (d) 8.1  
 (e) None of these
175. Oriental Bank of Commerce and United Bank of India merged with---  
 (a) RBI (b) SBI (c) PNB (d) LIC  
 (e) None of these



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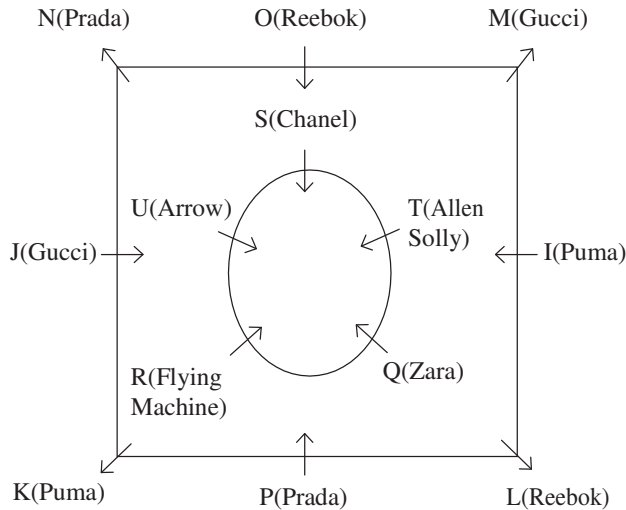
176. Which Ministry represented India in the 2+2 dialogue Between USA & India?  
 (a) Ministry Of Home Affairs  
 (b) Defence Ministry  
 (c) EAM  
 (d) EAM & Defence Ministry  
 (e) None of these
177. What is the Currency of South Korea?  
 (a) Yen (b) Rial (c) Dinar (d) won  
 (e) None of these
178. The Prime Minister launched India Post Payments Bank (IPPB) on.....  
 (a) September 1, 2018 (b) September 3, 2018  
 (c) September 4, 2018 (d) September 5, 2018  
 (e) None of these
179. The third Richest Person in India is ----  
 (a) Hinduja brothers (b) Cyrus Poonawalla  
 (c) Shiv Nadar (d) Gautam Adani  
 (e) None of these
180. First White Label ATM was launched by----?  
 (a) Indian Oil Corporation Lt(d)  
 (b) Tata Communications Payment Solutions Limited  
 (c) Reliance Industries Ltd  
 (d) State Bank of India  
 (e) None of these
181. What is the Stake of RIL in Jio Payment bank?  
 (a) 70% (b) 60% (c) 50% (d) 80%  
 (e) None of these
182. Karmyogi scheme is launched for---  
 (a) Doctors (b) Civil Servants  
 (c) Engineers (d) Skilled labourers  
 (e) None of these
183. The Dudhwa Tiger Reserve is a protected area in----  
 (a) Uttar Pradesh (b) Madhya Pradesh  
 (c) Bihar (d) Jharkhand  
 (e) None of these
184. Rani Lakshmi Bai Central Agricultural University is central agricultural university located in----  
 (a) Lucknow (b) Kanpur  
 (c) Jhansi (d) Varanasi  
 (e) None of these
185. Atal Mission for Rejuvenation and Urban Transformation (AMRUT) was launched in --  
 (a) January 2015 (b) July 2015  
 (c) August 2015 (d) June 2015  
 (e) None of these
186. The Ranapratap Sagar Dam is a gravity masonry dam of 53.8 metres height built on -----  
 (a) Yamuna river (b) Chambal River  
 (c) Ganga River (d) Gomati River  
 (e) None of these
187. When is the World Tribal Day observed?  
 (a) August 10 (b) August 4  
 (c) August 9 (d) August 5  
 (e) None of these
188. Total expenditure in budget 2020-21 is expected to be--  
 ---  
 (a) Rs. 50,42,230 crore (b) Rs. 30,42,000 crore  
 (c) Rs. 40,42,230 crore (d) Rs. 30,42,230 crore  
 (e) None of these
189. Dandiya Raas is the socio-religious folk dance originating from----  
 (a) Gujarat (b) Uttar Pradesh  
 (c) Madhya Pradesh (d) Karnataka  
 (e) None of these
190. STARS Programme is related with—  
 (a) Education (b) Game  
 (c) Film (d) Tourism  
 (e) None of these

## ANSWER KEY

|    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | (e) | 21 | (e) | 41 | (a) | 61 | (b) | 81  | (b) | 101 | (d) | 121 | (c) | 141 | (d) | 161 | (c) | 181 | (a) |
| 2  | (a) | 22 | (a) | 42 | (c) | 62 | (c) | 82  | (e) | 102 | (d) | 122 | (e) | 142 | (a) | 162 | (d) | 182 | (b) |
| 3  | (c) | 23 | (b) | 43 | (e) | 63 | (e) | 83  | (d) | 103 | (e) | 123 | (a) | 143 | (c) | 163 | (b) | 183 | (a) |
| 4  | (d) | 24 | (d) | 44 | (e) | 64 | (b) | 84  | (a) | 104 | (b) | 124 | (d) | 144 | (c) | 164 | (b) | 184 | (c) |
| 5  | (d) | 25 | (c) | 45 | (d) | 65 | (e) | 85  | (a) | 105 | (e) | 125 | (c) | 145 | (c) | 165 | (a) | 185 | (d) |
| 6  | (a) | 26 | (c) | 46 | (e) | 66 | (b) | 86  | (b) | 106 | (c) | 126 | (e) | 146 | (a) | 166 | (a) | 186 | (d) |
| 7  | (e) | 27 | (a) | 47 | (e) | 67 | (c) | 87  | (b) | 107 | (b) | 127 | (a) | 147 | (c) | 167 | (a) | 187 | (c) |
| 8  | (d) | 28 | (e) | 48 | (e) | 68 | (d) | 88  | (a) | 108 | (e) | 128 | (d) | 148 | (c) | 168 | (d) | 188 | (d) |
| 9  | (b) | 29 | (b) | 49 | (d) | 69 | (d) | 89  | (c) | 109 | (d) | 129 | (d) | 149 | (a) | 169 | (a) | 189 | (a) |
| 10 | (a) | 30 | (d) | 50 | (a) | 70 | (a) | 90  | (b) | 110 | (c) | 130 | (e) | 150 | (d) | 170 | (a) | 190 | (a) |
| 11 | (b) | 31 | (d) | 51 | (b) | 71 | (d) | 91  | (a) | 111 | (d) | 131 | (c) | 151 | (c) | 171 | (a) |     |     |
| 12 | (d) | 32 | (b) | 52 | (c) | 72 | (b) | 92  | (b) | 112 | (e) | 132 | (b) | 152 | (a) | 172 | (c) |     |     |
| 13 | (c) | 33 | (c) | 53 | (e) | 73 | (c) | 93  | (e) | 113 | (b) | 133 | (d) | 153 | (c) | 173 | (a) |     |     |
| 14 | (b) | 34 | (c) | 54 | (a) | 74 | (a) | 94  | (a) | 114 | (d) | 134 | (a) | 154 | (a) | 174 | (c) |     |     |
| 15 | (c) | 35 | (b) | 55 | (a) | 75 | (d) | 95  | (e) | 115 | (c) | 135 | (e) | 155 | (a) | 175 | (c) |     |     |
| 16 | (c) | 36 | (c) | 56 | (c) | 76 | (a) | 96  | (d) | 116 | (c) | 136 | (a) | 156 | (b) | 176 | (d) |     |     |
| 17 | (d) | 37 | (d) | 57 | (b) | 77 | (b) | 97  | (d) | 117 | (e) | 137 | (c) | 157 | (c) | 177 | (d) |     |     |
| 18 | (c) | 38 | (e) | 58 | (e) | 78 | (e) | 98  | (b) | 118 | (c) | 138 | (b) | 158 | (b) | 178 | (a) |     |     |
| 19 | (d) | 39 | (d) | 59 | (c) | 79 | (e) | 99  | (c) | 119 | (a) | 139 | (b) | 159 | (a) | 179 | (c) |     |     |
| 20 | (b) | 40 | (d) | 60 | (a) | 80 | (e) | 100 | (a) | 120 | (d) | 140 | (e) | 160 | (a) | 180 | (b) |     |     |

# ANSWERS & EXPLANATIONS

Sol. (1-5)



likes (Prada) P.

2. (a) O does not belong to that group as O is in middle on the square table while other are sitting at corner.
3. (c) T likes Allen solly
4. (d) Three persons are sitting between N and L. and N like the same cloth brand

Sol. (6-10) :

| CODE | DECODE |
|------|--------|
| @    | <      |
| %    | >      |
| #    | ≤      |
| \$   | ≥      |
| *    | =      |

6. (a) After decoding we get,  $A < Y > X = W \geq \$V$  so,  
**Conclusions:** – (I)  $Y > V$  (true) (II)  $A > V$  (false)  
Hence, conclusion I follows
7. (e) After decoding we get,  $A > Y = X \leq W = V$   
**Conclusions:** – (I)  $A > X$  (true) (II)  $V \geq Y$  (true)  
Hence, conclusion I and II follows.
8. (d) After decoding we get,  $A = Y \geq X \leq W < V$   
**Conclusions:** – (I)  $V = A$  (false) (II)  $X > A$  (false)  
Hence, neither conclusion I nor II follows.
9. (b) After decoding we get,  $A \geq Y \geq X = W < V$   
**Conclusions:** – (I)  $A \geq V$  (false) (II)  $V > X$  (true)  
Hence, conclusion II follows.
10. (a) After decoding we get,  $A = V < X > Y = W$   
**Conclusions:** – (I)  $X > W$  (true) (II)  $Y < A$  (false)  
Hence, conclusion I follows.

Sol (11-15):

| Floor | Person  | Boxes Shape | Colour |
|-------|---------|-------------|--------|
| 7     | Shilpi  | Pyramid     | Brown  |
| 6     | Prakhar | Cylindrical | Yellow |
| 5     | Qasim   | Spherical   | Green  |
| 4     | Neha    | Cuboid      | Black  |
| 3     | Rohan   | Oval        | Red    |
| 2     | Mani    | Heart       | Peach  |
| 1     | Om      | Conical     | Pink   |

11. (b) The one who has Cuboid shaped box is just above the one who has Oval shaped box.
12. (d) Three photographers live between Rohan's floor and the one who likes brown colour.
13. (c) Mani has heart shaped box.
14. (b) Shilpi lives on the topmost floor.
15. (c) Oval-Rohan-Red is the correct combination.

Sol. (16-17):

16. (c) By Condition (ii) the code for DRAP is 28!2
17. (d) By Condition (iii) the code for AUSEMR is 8@?198

Sol. (18-22):

In this input output question two numbers are arranged in each step following a certain pattern. Let us understand the logic behind it-

**For Words:** Words are arranged according to the place value of the last letter in the alphabetical series from right to left in the right end. The word which has the last letter, which comes 1st in alphabetical series, is arranged first and so on. For example, "music and guide" in which we can see that "c" and "e" are last letters of both words but c comes 1st, so "music" will be arranged 1st.

**For Numbers:** They are arranged in increasing order. The prime numbers are arranged first followed by composite numbers from left to right in left end.

**Input: Set 17 48 bad pack 23 situation 61 25 puzzle 16**

**Step I:** 17 Set 48 pack 23 situation 61 25 puzzle 16 bad

**Step II:** 17 23 Set 48 pack situation 61 25 16 puzzle bad

**Step III:** 17 23 61 Set 48 situation 25 16 pack puzzle bad

**Step IV:** 17 23 61 16 Set 48 25 situation pack puzzle bad

**Step V:** 17 23 61 16 25 48 Set situation pack puzzle bad

18. (c) Step IV: 17 23 61 16 Set 48 25 situation pack puzzle bad  
'Set' is exactly between the third element from left end and fifth element from right end in step IV.

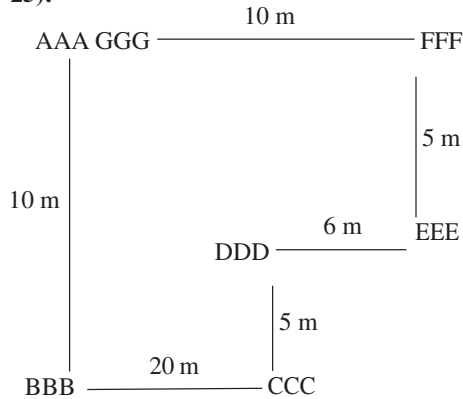
19. (d) Step II: 17 23 Set 48 pack situation 61 25 16 puzzle bad  
In step II, '17' is related to 'pack' and 'Set' is related to '61'. In the same way 'situation' is related to puzzle.

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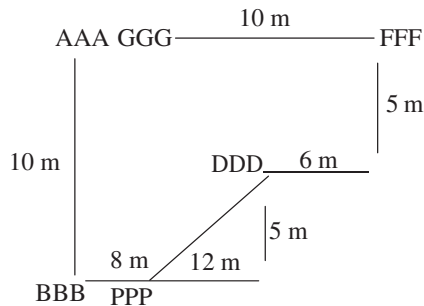
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20. (b) In step IV the elements "48 25 situation" found in the same order.
21. (e) Step II: 17 23 Set 48 pack situation 61 25 16 puzzle bad  
In step II, the sum of fourth element from left end and third element from right end is  $48 + 16 = 64$
22. (a) Step III: 17 23 61 Set 48 situation 25 16 pack puzzle bad  
Element would be at the third from the left of the element which is sixth from the right end in step III is ninth from the right end i.e., '61'

Sol. (23-25):



23. (b) Point FFF is in north east direction with respect to BBB. And north east is coded as @&.
24. (d) If point PPP is 8m of point BBB then the shortest distance between PPP and DDD



$$\sqrt{5^2 + 12^2} = 13\text{m}$$

25. (c) The direction of point EEE with respect to AAA is south east which is coded as #&

Sol. (26-30):

| Student     | Timing of Meeting    |
|-------------|----------------------|
| English     | 7:30 am to 9:30 am   |
| Mathematics | 9:30 am to 11:00 am  |
| Chemistry   | 11:30 am to 12:30 pm |
| Biology     | 12:30 pm to 2:30 pm  |
| Computer    | 2:30 pm to 4:00 pm   |
| Physics     | 4:00 pm to 5:00 pm   |

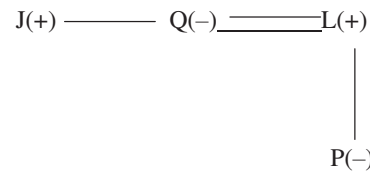
26. (c) Chemistry student attend the seminar between seminar hours 11:00 am to 12:30 pm.

27. (a) Chemistry Student attend the seminar immediately after Mathematics.
28. (e) Mathematics student attends seminar from 9:30 am -11:00 am.
29. (b) Computer student attends seminar just after the Biology.
30. (d) The duration (in hours) of the Mathematics' seminar is 1.5 hour

Sol. (31-35):

| Date<br>Month | 20th   |          | 25th   |           |
|---------------|--------|----------|--------|-----------|
|               | Person | City     | Person | City      |
| January       | R      | Agra     | W      | Faridabad |
| February      | T      | Banglore | P      | Goa       |
| June          | X      | Bareilly | V      | Pune      |
| September     | U      | Gaya     | Q      | Lucknow   |
| December      | Y      | Srinagar | S      | Meerut    |

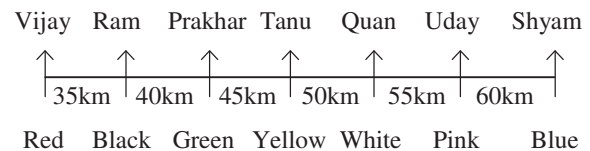
31. (d) S likes Meerut.
32. (b) One who goes on 25th February Like Goa.
33. (c) U goes Gaya in September.
34. (c) X goes in June month.
35. (b) Four persons are going in between T and Q.
36. (c)



By option (c) we can denote 'Q is mother of P'

37. (d) By option (d)  $E5000 < C3000 \geq D4000 > B2000$   
 $\geq A1000 = F6000$   
 'C3000 > A1000' holds true.

Sol. (38-42):



38. (e) Uday likes Pink colour.
39. (d) Distance between Ram and the official who likes white colour is 135km.
40. (d) Three offices are there between Prakhar and the official who likes blue colour.
41. (a) Prakhar sits to the immediate left of Tanu.
42. (c) Tanu and the one who likes blue colour have distance of 165km between them.

Sol. (43-45):

43. (e) After combining statement I and II,



44. (e) Using both statements, there are 18 children between Priya and Gargi
45. (d) Using both statements we cannot find out the relation between Ankit and Fiza.
46. (e) Original number- 57672154  
After applying operation- 2434221  
There are 2 digits are repeating in the number thus formed.
47. (e)  
(a) does not follow because the NCR phenomenon can't be extrapolated to "most of the big cities". b) and d) are probable consequences. c) shows us the other side. e) follows from the mention of "slump in home sales" and scope for "price correction".
48. (e) Decline in profit will lead to closure of the company, so option a) is not valid. Establishment of new branches by the MNCs will lead to upsurge in the hiring activities. At the same time, maintenance of positive growth rate by the Indian MNC companies will help them expand their business. So only B) and C) follow.
49. (d) Note that there has been a decline in gold imports.
50. (a) The main reason for the depletion in the reservoirs is less rainfall in the country. So only option a) follows.
51. (b) Percentage of expenditure on Food and Health by Scientist = 20%.  
Expenditure on Food and Health by Scientist  

$$= 50000 \times \frac{20}{100} \times \frac{110}{100}$$
52. (c) Expenditure on Food and Health  

$$= 20\% \text{ of } ₹ 50,000 = ₹ 10,000.$$
  
 Remaining income = ₹ 50,000 - ₹ 10,000 = ₹ 40,000.  
 Saving =  $\frac{2}{5} \times 40,000$   

$$\therefore x = ₹ 16,000$$
  
 So, saving of Doctor is ₹ 16,000.
53. (e) Let the monthly income of Scientist is ₹ P.  
 45% of P = 9,000  

$$P = 9,000 \times \frac{100}{45}$$
  

$$P = ₹ 20,000.$$
  

$$\therefore \text{Monthly income of scientist is } ₹ 20,000.$$
54. (a) Monthly income of Doctor = ₹ 50,000  
 Monthly income of Engineer = ₹ 72,000  
 Let the monthly income of Scientist is ₹ P.  
 45% of P = 9000  

$$P = 9,000 \times \frac{100}{45} = ₹ 20,000.$$
  
 Sum of monthly income of Doctor, Engineer and Scientist = ₹ (50,000 + 72,000 + 20,000) = ₹ 1,42,000.

55. (a) Saving of Engineer  

$$= \text{Monthly income} - \text{Expenditure on Health \& Food}$$
  

$$= ₹ 72,000 - 12\% \text{ of } 72,000$$
  

$$= ₹ 63,360.$$
  
 Saving of Scientist = ₹ 9,000.  

$$\therefore \text{Required percentage} = \left[ \left( \frac{63360}{9000} \right) \right] \times 100 = 704\%.$$
56. (a) Revenue generated = 60,000  
 On Haridwar trip revenue generated  

$$= 60,000 \times \frac{15}{100} = ₹ 9,000.$$
  
 Cost of each ticket on travelling to Haridwar = ₹ 600  
 Then no. of people who travelled =  $\frac{9000}{600} = 15.$
57. (b) Revenue generated by people travelling to Shimla and Rishikesh  

$$= \left( \frac{22}{100} \times 60,000 + \frac{24}{100} \times 60,000 \right)$$
  

$$= 13200 + 14400 = 27600.$$
  
 Let the average price of each ticket be 'P'.  
 Then,  $(15 + 13)P + (12 + 13)P = 27600$   

$$\Rightarrow 53P = 27600$$
  

$$\Rightarrow P = \frac{27600}{53} = 520.75.$$
  

$$\therefore \text{Average price of each ticket is } ₹ 520.75.$$
58. (a) Revenue by Manali trip  

$$= 60000 \times \frac{18}{100} = ₹ 10,800$$
  
 Cost of each ticket = ₹ 720.  

$$\therefore \text{The number of people who travelled} = \frac{10800}{720} = 15.$$
59. (a) Tickets booked  

$$= \frac{60000}{3000} = 20.$$
  
 The average number of tickets booked per city  

$$= \frac{20}{5} = 4.$$
60. (a) Number of tickets cancelled  

$$= 3 + 12 + 10 + 13 + 15 = 53$$
  
 Average number of tickets cancelled per city  

$$= \frac{53}{5} = 10.6.$$
61. (b) Let N number of cubes of type P can be formed by the given cuboid  

$$m^2 - 12m + 36 = 0$$
  

$$\Rightarrow m^2 - 6m - 6m + 36 = 0$$
  

$$\Rightarrow m(m - 6) - 6(m - 6) = 0$$
  

$$\Rightarrow (m - 6)^2 = 0 \Rightarrow m = 6.$$
  
 The length of the side of cube A = 6 m.  
 So, the length of the side of cube P = 6 + 1 = 7 m.  

$$\therefore \text{The number of cubes of type P from the cuboid}$$
  

$$= \frac{49 \times 52 \times 56}{7 \times 7 \times 7} = 52 \times 8 = 416.$$

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62. (c)  $m^2 - 12m + 36 = 0$   
 $\Rightarrow (m-6)^2 = 0 \Rightarrow m = 6$  m  
 The length of the side of cube  $A = 6$  m.  
 $\therefore$  The length of the side of cube  $P = 6 + 1 = 7$  m.  
 $n^2 + 21n - 46 = 0$   
 $\Rightarrow n^2 + 23n - 2n - 46 = 0$   
 $\Rightarrow n(n+23) - 2(n+23) = 0$   
 $\Rightarrow (n-2)(n+23) = 0$   
 $\Rightarrow n = 2$  m,  $n = -23$  (Not possible)  
 The length of the side of cube  $B = 2$  m.  
 $\therefore$  The length of the side of cube  $Q = 2 + 2 = 4$  m.  
 $r^2 - 10r + 25 = 0$   
 $\Rightarrow r^2 - 5r - 5r + 25 = 0$   
 $\Rightarrow r(r-5) - 5(r-5) = 0$   
 $\Rightarrow (r-5)^2 = 0$   
 $\Rightarrow \boxed{r=5}$  m  
 The length of the side of cube  $C = 5$  m.  
 $\therefore$  The length of the side of cube  $R = 5 + 3 = 8$  m.  
 Average side length of cube  $A$ ,  $Q$  and  $R$   
 $= \frac{(6+4+8)}{3} = \frac{18}{3} = 6$   
 Average side length of cube  $P$ ,  $B$  and  $C$   
 $= \frac{(7+2+5)}{3} = \frac{14}{3}$   
 Required percentage  
 $= \frac{\left(6 - \frac{14}{3}\right)}{\frac{14}{3}} \times 100 = \frac{4}{14} \times 100 = \frac{200}{7} = 28\frac{4}{7}\%$  more.
63. (e)  $m^2 - 12m + 36 = 0$   
 $\Rightarrow (m-6)^2 \Rightarrow m = 6$  m.  
 The length of the side of cube  $A = 6$  meter  
 So the length of the side of cube  $P = 6 + 1 = 7$  meter  
 Volume of cube  $P$  and  $A$  together  
 $= 6^3 + 7^3 = 216 + 343 = 559$  m<sup>3</sup>  
 $n^2 + 21n - 46 = 0$   
 $\Rightarrow n^2 + 23n - 2n - 46 = 0$   
 $\Rightarrow n(n+23) - 2(n+23) = 0$   
 $\Rightarrow (n+23)(n-2) = 0$   
 $\Rightarrow n = 2$  m,  $n = -23$  (Not possible)  
 The length of the side of  $B = 2$  meter.  
 So, the length of the side of cube  $Q = 2 + 2 = 4$  meter  
 Volume of cube  $B$  and  $Q$  together  
 $= 2^3 + 4^3 = 8 + 64 = 72$  m<sup>3</sup>  
 $\therefore$  Required ratio =  $559 : 72$ .
64. (b)  $m^2 - 12m + 36 = 0$   
 $m = 6$  meter.  
 The length of the side of cube  $A = 6$  m.

- $r^2 - 10r + 25 = 0$   
 $r = 5$  meter  
 The length of the side of cube  $C = 5$  m.  
 $\therefore$  The length of the side of cube  $R = 5 + 3 = 8$  m.  
 The required ratio  
 $= (6 \times 6^2) : (6 \times 8^2)$  {Total surface area of cube  
 $= 36 : 64$   $= 6 \times (\text{side})^2$   
 $= 9 : 16$
65. (e) The length of the side of cube  $A = 6$  m  
 $\therefore$  The length of the side of cube  $P = 6 + 1 = 7$  m.  
 The length of the side of cube  $B = 2$  m.  
 $\therefore$  The length of the side of cube  $Q = 2 + 2 = 4$  m.  
 The length of the side of cube  $C = 5$  m  
 $\therefore$  The length of the side of cube  $R = 5 + 3 = 8$  m.  
 $\therefore$  No cube has equal side length.
66. (b) Books available in library  $P = (880 - 720) = 160$ .  
 Books available in library  $Q = (1040 - 880) = 160$   
 Books available in library  $R = (960 - 840) = 120$   
 Books available in library  $S = (840 - 640) = 200$   
 Books available in library  $T = (1080 - 760) = 320$ .  
 Total books in all the 5 libraries  
 $= (160 + 160 + 120 + 200 + 320) = 960$   
 Required average  $= \frac{960}{5} = 192$ .
67. (c) Books available in library  $P$ ,  $R$  and  $S$  together  
 $= (160 + 120 + 200) = 480$ .  
 Books available in library  $Q$  and  $T$  together  
 $= (160 + 320) = 480$ .  
 $\therefore$  Required ratio =  $480 : 480 = 1 : 1$ .
68. (d) Books available in library  $P$  and  $S$  together  
 $= (160 + 200) = 360$   
 Books available in library  $Q$  and  $T$  together  
 $= (160 + 320) = 480$   
 Required percentage  
 $= \frac{(480 - 360)}{480} \times 100 = 25\%$  less.
69. (d) Books available in library  $S = 200$   
 Books owned by library  $Q$  and  $R$  together  
 $= (1040 + 960) = 2000$   
 Required percentage  $= \frac{200}{2000} \times 100 = 10\%$ .
70. (a) Total books owned by all the libraries together  
 $= (880 + 1040 + 960 + 840 + 1080) = 4800$   
 Total books issued by all the libraries together  
 $= (720 + 880 + 840 + 640 + 760) = 3840$   
 Required Ratio =  $4800 : 3840 = 5 : 4$ .
71. (d) **Quantity I :**  
 Average of four numbers =  $28$   
 $\therefore$  Sum of four numbers =  $28 \times 4 = 112$ .  
 Let the number removed is  $a$ .  
 Then new average =  $(28 - 2) = 26$   
 $\therefore$  Sum of three numbers =  $26 \times 3 = 78$   
 $112 - a = 78$   
 $\therefore a = 112 - 78 = 34$ .  
**Quantity II : 36**  
 So, Quantity I < Quantity II.



72. (b) Let E is the event of the probability.

total number of outcomes.

Number of favourable outcomes = [(1, 1), (1, 3), (1, 5), (3, 1), (3, 3), (3, 5), (5, 1), (5, 3), (5, 5)]

So, number of favourable outcomes = 9

total number of outcomes = 36

$$P(E) = \frac{9}{36} = \frac{1}{4}$$

$$\text{Quantity II : } \frac{1}{5}$$

∴ Quantity I > Quantity II.

73. (c) **Quantity I :**

$$P^2 - 39P + 378 = 0$$

$$\Rightarrow P^2 - 18P - 21P + 378 = 0$$

$$\Rightarrow P(P - 18) - 21(P - 18) = 0$$

$$\Rightarrow (P - 18)(P - 21) = 0$$

$$\therefore P = 18, 21$$

**Quantity II :**

$$Q^2 - 24Q + 108 = 0$$

$$\Rightarrow Q^2 - 18Q - 6Q + 108 = 0$$

$$\Rightarrow Q(Q - 18) - 6(Q - 18) = 0$$

$$\Rightarrow (Q - 18)(Q - 6) = 0$$

$$\therefore Q = 6, 18$$

| Value of P | Value of Q | Relation |
|------------|------------|----------|
| 18         | 18         | $P = Q$  |
| 18         | 6          | $P > Q$  |
| 21         | 18         | $P > Q$  |
| 21         | 6          | $P > Q$  |

∴ Quantity I ≥ Quantity II.

74. (a) **Quantity I :**

$$P^2 - 11P + 24 = 0$$

$$\Rightarrow P^2 - 8P - 3P + 24 = 0$$

$$\Rightarrow P(P - 8) - 3(P - 8) = 0$$

$$\Rightarrow (P - 8)(P - 3) = 0$$

$$\therefore P = 8, 3.$$

**Quantity II :**

$$Q^2 - 20Q + 96 = 0$$

$$\Rightarrow Q^2 - 12Q - 8Q + 96 = 0$$

$$\Rightarrow Q(Q - 12) - 8(Q - 12) = 0$$

$$\Rightarrow (Q - 12)(Q - 8) = 0$$

$$\therefore Q = 12, 8.$$

| Value of P | Value of Q | Relation |
|------------|------------|----------|
| 8          | 8          | $P = Q$  |
| 8          | 12         | $P < Q$  |
| 3          | 12         | $P < Q$  |
| 3          | 8          | $P < Q$  |

∴ Quantity I ≤ Quantity II.

75. (d) **Quantity I :**

$$\text{Speed of boat : } \frac{(20+10)}{2} = 15 \text{ Km/h.}$$

$$\text{Time taken To cover the distance} = \frac{30}{15} = 2 \text{ hrs.}$$

**Quantity II :** 4 hrs.

∴ Quantity I < Quantity II.

76. (a) **Statement I :**

Speed of Auto B = 50 Km/hr.

Distance between Auto A and Auto B = 40 Km.

Then relative speed = 120 Km/hr.

Speed of Auto A = 120 - 50 = 70 Km/hr.

Required time taken by Auto A to cross Auto B

$$= \frac{40}{70-50} = 2 \text{ hrs.}$$

Therefore statement I alone is sufficient to answer the question.

**Statement II :** Speed of Auto B is already given and we can calculate only speed of Auto B from statement II.

So, Statement II alone is not sufficient to answer the question.

77. (b) Marked price of item A = Market price of item B

**Statement II :**

Discount offered at item A = 25%

Selling price of item A =  $0.75 \times 3000 = ₹ 2250$ .

$$\text{Cost price of item A} = \frac{2250}{1.25} = ₹ 1800$$

$$\text{Cost price of item B} = 1800 \times \frac{11}{10} = ₹ 1980$$

Selling price of item B =  $1980 \times 1.2 = ₹ 2376$

So, statement II alone is sufficient to answer the question.

**Statement I :** From statement I we cannot find the cost price and selling price of any item. So, statement I alone is not sufficient to answer the question.

78. (e) **Statement I :**

Ratio of investment

= Rahul : Shivam : Garvit

$$= 5 \times 7 : a \times 7 : 8 \times a = 35 : 7a : 8a$$

Ratio of Profit share

= Rahul : Shivam : Garvit

$$= 35 \times 24 : 7a \times 24 : 8a \times 10 = 420 : 84a : 80a.$$

total profit = ₹ 33600

$$(420 + 84a + 80a) = ₹ 33600.$$

**Statement II :**

Garvit's share = ₹ 12,000

By Statement I & II together we get

$$\frac{80a}{420 + 84a + 80a} = \frac{12000}{33600}$$

$$\Rightarrow \frac{80a}{420 + 164a} = \frac{5}{14}$$

$$\Rightarrow \frac{40a}{210 + 82a} = \frac{5}{14}$$

$$\Rightarrow 560a = 1050 + 410a$$

$$\Rightarrow 150a = 1050$$

$$\Rightarrow a = \frac{1050}{150} = 7.$$

$$150$$

Hence both the statements are required to answer the question.

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79. (e) Let the two digit number =  $ab = 10a + b$

**Statement I :**

$$a + b = 12 \quad \dots(1)$$

**Statement II :**

$$10b + a = 10a + b + 36$$

$$9(a - b) = 36$$

$$a - b = 4 \quad \dots(2)$$

From eqn. (1) and (2),

$$a + b = 12$$

$$a - b = 4$$

$$\therefore a = 8, b = 4.$$

So, the value of two digit number is 84.

Hence both the statements are required to answer the questions.

80. (e) **Statement I :**

$$m^2 - 10m + 25 = 0$$

$$\Rightarrow m^2 - 5m - 5m + 25 = 0$$

$$\Rightarrow (m - 5)(m - 5) = 0$$

$$\Rightarrow (m - 5)^2 = 0 \Rightarrow m = 5.$$

**Statement II :**

$$n^2 - 14n + 49 = 0$$

$$\Rightarrow n^2 - 7n - 7n + 49 = 0$$

$$\Rightarrow (n - 7)^2 = 0 \Rightarrow n = 7$$

So, both the statements are required to answer the question.

81. (b) **Statement I :**

$$PQ = 16 \text{ cm}, QR = 12 \text{ cm}.$$

We can not conclude that which of the angle of triangle is right angle by alone statement I.

**Statement II :**

Let the sides of triangle are  $a, b$  and  $c$ .

$$\text{Inradius of triangle} = \frac{a + b - c}{2} = 4 \text{ cm}.$$

$$\text{Circumradius of triangle} = \frac{\text{Hypotenuse}}{2} = \frac{C}{2} = 10$$

$$C = 20 \text{ cm}.$$

$$a + b = 28.$$

We can calculate the value of  $a$  and  $b$  by pythagorean theorem, then we can calculate the area of right-angled triangle.

So, statement II alone is sufficient to answer the question but only statement I alone is not sufficient to answer the question.

82. (e) There are 11 odd numbers in the group 1 - 21.

$$\text{The probability that the first mug is odd numbered} = \frac{11}{21}.$$

Since the mug is not replaced there are now 20 mug left, of which 10 are even numbered.

$$\text{The probability that the second mug is odd numbered} = \frac{10}{20} \Rightarrow \frac{1}{2}.$$

$$\text{Required probability} = \frac{11}{21} \times \frac{1}{2} = \frac{11}{42}.$$

83. (d) The average temperature from Monday to Wednesday =  $36^\circ\text{C}$ .

Total temperature from Monday to Wednesday

$$= 36 \times 3 = 108^\circ\text{C}.$$

Average temperature from Monday to Thursday

$$= 36 + 1 = 37^\circ\text{C}$$

Total temperature from Monday to Thursday

$$= 37 \times 4 = 148^\circ\text{C}$$

$$\text{So, temperature of Thursday} = 148 - 108 = 40^\circ\text{C}.$$

84. (a)  $\frac{2}{4}$  of  $52 = 52 \times \frac{2}{4} = 39$ .

$$\frac{2}{3} \text{ of } 99 = 99 \times \frac{2}{3} = 66.$$

$$\therefore 66 - 39 = 27.$$

85. (a) Let the income of Mohit and Sohit is  $4x$  and  $3x$  respectively and their expenditures are  $3y$  and  $2y$  respectively.

$$\therefore 4x - 3y = 6000$$

$$\text{and } 3x - 2y = 6000$$

After solving it,  $x = 6000$

Their income are  $4 \times 6000 = 24,000$

and  $3 \times 6000 = 18,000$  respectively.

86. (b) Let each question carry 1 mark, so total mark = 70

And passing marks = 60% of 70 = 42 marks.

Number of questions answer correctly

$$= 70\% \text{ of } 10 + 40\% \text{ of } 30 + 60\% \text{ of } 30$$

$$= 7 + 12 + 18 = 37 \text{ marks}.$$

So, he has to answer  $42 - 37 = 5$  more questions correctly to get pass.

87. (b) Let, cost of Banana and Mango =  $x$  / Banana or Mango

Cost of Banana later =  $x \times 1.04$  / Banana

Cost of Mango later =  $x \times 1.05$  / Mango

Initial value of 5 Mango and 4 Banana =  $9x$

Final value of 5 Mango and 4 Banana

$$= 5(1.05x) + 4(1.04x)$$

$$= 5.25x + 4.16x = 9.41x.$$

So, percentage increase

$$= \frac{(9.41x - 9x)}{9x} \times 100 = \frac{41}{9} = 4.55\%.$$

88. (a) **Case I :**

5 Boys and 3 Girls can be selected.

Number of ways of selection

$$= {}^9C_5 \times {}^7C_3 = 126 \times 35 = 4410.$$

**Case II :**

7 Boys and 1 Girl can be selected.

Number of ways of selection

$$= {}^9C_7 \times {}^7C_1 = 36 \times 7 = 252.$$

**Case III :**

6 Boys and 2 Girls can be selected.

Number of ways of selection

$$= {}^9C_6 \times {}^7C_2 = 84 \times 21 = 1764.$$

**Case IV :**

8 Boys can be selected.

Number of ways of selection =  ${}^9C_8 = 9$ .

∴ Total number of ways of selecting the members =  $(4410 + 252 + 1764 + 9) = 6435$  ways.

89. (c) The present age of mother  $Q = 9x$

The present age of daughter,  $R = x$

Sum of ages of  $P + Q + R = 100$  years

$S$ 's age 7 years ago = 3 years

So, present age of  $S = 7 + 3 = 10$  years

At the time of the birth  $R$ ,

$P$ 's age =  $Q$ 's present age

$$\Rightarrow P - x = 9x \Rightarrow P = 10x$$

$$\Rightarrow P + Q + R = 100$$

$$\Rightarrow 10x + 9x + x = 100$$

$$\Rightarrow 20x = 100 \Rightarrow x = 5$$

$$P\text{'s age} = 10 \times 5$$

∴  $P$ 's present age = 50 years.

90. (b) The sum of the weight of the office's of 60 employees

initially =  $60 \times 60 = 3600$  Kg.

New average of office's employees =  $60 + 2 = 62$ .

$$62 = \frac{(3600 - 0.4a - 0.5a + a + a - 34)}{60}$$

$$\Rightarrow 62 \times 60 = (3566 - 0.9a + 2a)$$

$$\Rightarrow 3720 = 3566 + 1.1a$$

$$\Rightarrow 1.1a = 154 \Rightarrow a = 140.$$

∴ Required value of  $a = 140$  Kg.

91. (a) Let total initial mixture in vessel =  $7x$

So, juice in vessel =  $5x$

And water in vessel =  $2x$

ATQ,

$$\left(5x - 35 \times \frac{5x}{7x}\right) - \left(2x - 35 \times \frac{2x}{7x}\right) = 141$$

$$\Rightarrow (5x - 25) - (2x - 10) = 141$$

$$\Rightarrow 3x - 15 = 141 \Rightarrow 3x = 156 \Rightarrow x = 52.$$

So, initial mixture in vessel =  $7x = 7 \times 52 = 364$  litres

92. (b) Let the cost price of article is  $100x$ .

At 25% profit selling price of the article

$$= 100x + \frac{100x \times 25}{100} = 125x$$

At 35% profit selling price of article

$$= 100x + \frac{100x \times 35}{100} = 135x$$

ATQ,

$$135x - 125x = ₹ 60$$

$$10x = ₹ 60$$

$$100x = ₹ 600$$

∴ Cost price of the article is ₹ 600.

If he wants a profit of 70% the marked price of the article

$$= 600 + 600 \times \frac{70}{100} = 600 + 420 = ₹ 1020.$$

93. (a) If 30 articles = 136

total amount of 30 articles =  $30 \times 136 = ₹ 4080$

Difference in amount =  $106 - 70 = 36$

Correct total amount =  $4080 + 36 = 4116$

$$\therefore \text{Correct average} = \frac{4116}{30} = 137.2$$

94. (a) Inradius the triangle

$$= \frac{P + B - H}{2} = \frac{20 + 15 - 25}{2} = \frac{10}{2} = 5 \text{ cm}$$

$$\text{Circumradius of the triangle} = \frac{H}{2} = \frac{25}{2} = 12.5 \text{ cm.}$$

$$\text{Required percentage} = \frac{(12.5 - 5)}{12.5} \times 100 = 60\%.$$

95. (e) Speed of car  $C_2 = 60$  Km/h.

Let speed of car  $C_1 = x$  Km/h.

Then,

$$\frac{S_1}{S_2} = \sqrt{\frac{t_2}{t_1}}$$

$$\Rightarrow \frac{x}{60} = \sqrt{\frac{4}{1}} \Rightarrow \frac{x}{60} = \frac{2}{1} \Rightarrow x = 120 \text{ Km/h.}$$

$$\Rightarrow 120 \times \frac{5}{18} = \frac{100}{3} \text{ m/sec.}$$

Therefore speed of car  $C_1$  is  $\frac{100}{3}$  m/sec.

96. (d) Let the total population of India in 2019 = a million,

then 25% of  $a$  million = 200 million

$$a = 200 \times 4 = 800 \text{ million}$$

4% of the total population of India sold products

online = 4% of 800 million = 32 million.

Hence, option (d) is correct.

97. (d) Let the total population of India in 2019 = a million,

then 25% of  $a$  million = 200 million

$$a = 200 \times 4 = 800 \text{ million}$$

4% of the total population of India sold products

online = 4% of 800 million = 32 million.

In 2020, the number of sellers remained constant then

$$= \frac{64 \text{ billion}}{32 \text{ million}} = \frac{64 \times 1000}{32} = 2000 \text{ million}$$

$$= 2 \text{ billion} = \text{revenue per seller in 2019.}$$

Hence, option (d) is correct.

98. (b) In 2019, 200 million people bought products online.

In 2020, 125% of 200 = 250 million brought products online.

In 2021, 140% of 125 = 175 million people will buy products online.

Hence, option (b) is correct.

99. (c) Let the total population of India in 2019 = a million,

then, 25% of  $a$  million = 200 million

$$a = 200 \times 4 = 800 \text{ million}$$

The required %

$$= \frac{(1000 - 800)}{800} \times 100 = \frac{200 \times 100}{800} = 25\%$$

Hence, option (c) is correct.

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100. (a) Let the total population of India in 2019 = a million,  
then, 25% of a million = 200 million  
 $a = 200 \times 4 = 800$  million  
The population of India in 2020  
= 120% of 800 = 960 million  
The population of India in 2021  
= 110% of 960 million = 1056 million  
In 2021 because of Interest 50% of the total population of India will buy products online  
= 50% of 1056  
=  $\frac{50 \times 1056}{100} = 528$  million.  
Hence, option (a) is correct.
101. (d) Refer to the first paragraph, the hint can be drawn from the lines,  
Remote work is shaping up to be a major trend that will likely keep growing even after the pandemic ends.  
Now, the boundaries between personal and professional lives have blurred. Juggling between professional and personal tasks with no leisure time can stress employees out and affect their mental health. If left unchecked, this stress can, in some cases, also increase an employee's risk for heart diseases.  
Here, Both (II) and (III) statement can be inferred from the above quoted lines. Hence, **option (d)** is the right answer choice.
102. (d) Refer to the second paragraph, the hint can be drawn from the lines.  
Work-life balance is crucial for employee satisfaction and overall business success as well. Organizations that neglect this aspect, will have a hard time attracting and retaining talent.  
Hence, **option (d)** is the right answer choice.
103. (e) Refer to the last paragraph of the given passage, the hint can be drawn from the lines,  
It starts with creating a more empathetic work environment. Every workforce is unique, and it's up to the management to connect with their employees and hear their perspective before implementing necessary measures. Hybrid work, flexible holiday policies, floating holidays, wellness leaves, mental health days—these are all excellent places to start, but the degree to which an organization adopts them will depend on their employees' preferences.  
Here, all the statement I, II, and III justify the above quoted lines. Hence, **option (e)** is the right answer choice.
104. (b) Refer to the below lines given in the passage, the hint can be drawn from:  
**Statement (II):** We will continue to see more organizations taking significant measures to improve their employees' work-life balance and enhance employee management.  
**Statement (I):** As the stress levels of individual employees increase, it becomes a ripple effect that can lead to an obstructive work environment and weak professional relationships.
- Statement (III):** To stay ahead of expectations, many organizations have begun initiatives to provide remote employees a smooth working experience....  
Here, it is clear from the above quoted lines that statement I and III cannot be inferred from the given passage while statement II can be inferred. Hence, **option (b)** is the right answer choice.
105. (e) Significant: important or large enough to be noticed  
-having a particular meaning  
Momentous: Important, serious  
Hence, **option (e)** is the right answer choice.
106. (c) A ripple effect is the effect or influence of a situation, action, event, etc. that does not stop but is experienced on a series of things one after the other  
Hence, **option (c)** is the right answer choice.
107. (b) Emphatic: expressing something forcibly and clearly.  
Hesitant: slow to speak or act because you are uncertain  
Hence, **option (b)** is the right answer choice.
108. (e) Refer to the first paragraph, the hint can be drawn from the lines,  
A gig economy consists of people carving a career path through freelance and contractual work – wherein the individual is paid per job, or 'gig', as opposed to receiving a regular salary or wage from an employer.  
Today, most people look at it as the much desired antidote to a monotonous nine-to-five existence, allowing them to work with freedom and flexibility.  
With the above quoted lines, all the given statements can be inferred from the above lines. Hence, **option (e)** is the right answer choice.
109. (d) Refer to the second paragraph, the hint can be drawn from the lines,  
The rise of the gig economy has made it easier for people to take charge of their work lives, giving them the freedom to work the way they want to. This very characteristic of the gig economy can be greatly tempting for creative or skilled professionals such as content writers, web developers, etc. who can maximize their skills through an unrestrained, unrestricted work set up.  
The gig economy allows an individual to take absolute charge of their skills and knowledge.  
Here, with the above quoted lines, all the statements i, ii, iii, and iv justify the above quoted lines. Hence, **option (d)** is the right answer choice.
110. (c) Refer to the second paragraph, the hint can be drawn from the lines,  
This is a clear indicator of the fact that full-time employment isn't for everyone. For most people, the deal-breaker in a full-time employment set up would be that the employer principally owns the employee's skills; employers believe they have the right to use them as they desire and as in line with the employment contract and job designation. In essence, the employer buys the rights to an individual's skills for a monthly fee which is the salary.  
From the above quoted lines, only (a) and (b) are justified. Hence, **option (c)** is the right answer choice.

111. (d) Refer to the third paragraph, the hint can be drawn from the lines,  
The future of Gig work holds great potential because it tends to be more meaningful and rewarding in more than just the monetary aspect. The simple fact that you are building your own brand instead of someone else's makes this type of work intrinsically motivating in the long run. Unlike traditional employment, gig work focuses on results instead of embroiling processes. Gig workers or freelancers are evaluated and paid based on their ability to deliver results.  
With the above quoted lines, (a), (b), and (c) are justified. Hence, **option (d)** is the right answer choice.
112. (e) Refer to the last paragraph, the hint can be drawn from the lines,  
Also, the biggest advantage of gig work lies in its integration with technology because needless to say, the future of India's start-ups and its gig economy lies in digital innovations and a robust digitized ecosystem. A major part of the gig economy, digital marketplaces are now signing up demand-driven service providers skilled in niche areas such as beauty, fitness, plumbing, electrical repairs, etc. and offer these services to consumers on a contractual basis as per requirements. This business model allows for the service providers to communicate with the end users directly through the app according to their terms and conditions. This opens up a world of opportunities for the freelance workforce.  
From the above quoted lines, only (a), (b), and (d) are justified. Hence, **option (e)** is the right answer choice.
113. (b) Contingency: a future event or circumstance which is possible but cannot be predicted with certainty.  
Possibility: the fact that something might exist or happen, but is not likely to  
Hence, **option (b)** is the right answer choice.
114. (d) Disgruntled: Disappointed and appointed  
Aggrieved: upset or angry at being treated unfairly  
Hence, **option (d)** is the right answer choice.
115. (c) Intrinsic: belonging naturally, essential.  
Acquired: to obtain or buy something  
Hence, **option (c)** is the right answer choice.
116. (c) "stimulus" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (c)** is the right answer choice.  
Stimulus: something that causes activity, development or interest
117. (e) "Buoyed" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (e)** is the right answer choice.  
Buoyed: kept (something) at a high level
118. (c) "Upswing" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (c)** is the right answer choice.  
Upswing: an increase in strength or quantity; an upward trend.
119. (a) "Batted" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (a)** is the right answer choice.  
Batted: to deliver a blow to (someone or something) usually in a strong vigorous manner
120. (d) "Housed" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (d)** is the right answer choice.  
Housed: to provide with living quarters or shelter
121. (c) "Compel" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (c)** is the right answer choice.
122. (e) "coincide" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (e)** is the right answer choice.
123. (a) "Prohibits" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (a)** is the right answer choice.
124. (d) "Barred" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (d)** is the right answer choice.
125. (c) "Hurt" will fill up the blank with appropriate words to make the paragraph meaningful. Hence, **option (c)** is the right answer choice.
126. (e) Show a clean pair of heels: To run or move away from someone at great speed.  
1. run away  
2. get ahead of somebody in a competition  
Hence, **option (e)** is the right answer choice.
127. (a) Bury the hatchet: End the quarrel and make peace  
In II, "smelled a rat" will be suitable which means Suspect something foul  
In III, "read between the lines" will be suitable which means Understand the hidden meaning.  
Hence, **option (a)** is the right answer choice.
128. (d) Chew the cud: To contemplate something. ("Cud" is partially digested food that is regurgitated to be chewed again, a common behavior of cows.)  
In I, "A close shave" will be suitable which means A narrow escape from or avoidance of a situation, often an unfavorable or dangerous one.  
Hence, **option (d)** is the right answer choice.
129. (d) At sea: Puzzled, perplexed, or completely confused (about a subject or some task at hand).  
In III, "meaning business" will be suitable. **Mean business- To be grave and resolute; to be serious about what one is promising or proposing to do.**  
Hence, **option (d)** is the right answer choice.
130. (e) Once in a blue moon: very rarely.  
Hence, **option (e)** is the right answer choice.
131. (c) "Overall, Substantially" is the set of words for each blank that best fits in the context of the sentence.  
Hence, **option (c)** is the right answer choice.
132. (b) "Contractual, Applications" is the set of words for each blank that best fits in the context of the sentence.  
Hence, **option (b)** is the right answer choice.
133. (d) "Abolition, Solitary" is the set of words for each blank that best fits in the context of the sentence.  
Hence, **option (d)** is the right answer choice.
134. (a) "Comparative, Inoculation" is the set of words for each blank that best fits in the context of the sentence.  
Hence, **option (a)** is the right answer choice.



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135. (e) "Relevant, Trajectory" is the set of words for each blank that best fits in the context of the sentence. Hence, **option (e)** is the right answer choice.
136. (a) In the given sentence, the error is in part (A). While introducing oneself, possessive pronoun "**myself**" should not be mixed up with subject pronoun "**I**". Hence, **option (a)** is the right answer choice.
137. (c) In the given sentence, the error is in part (C). Use 'overcrowded' in place of 'overcrowd' as we need an adjective to qualify the noun 'transportation'. Hence, **option (c)** is the right answer choice.
138. (b) In the given sentence, the error is in part (B). Use 'lay down' in place of 'laid down' as V1 will be used here to make the sentence grammatically correct. Hence, **option (b)** is the right answer choice.
139. (b) In the given sentence, the error is in part (B). 'whose design' is incorrect, it must be changed to 'the design of which' as whose is never used for non-living things. Hence, option (b) is the right answer choice.
140. (e) The given sentence is correct and there is no error in any of its parts. Hence, **option (e)** is the right answer choice.
141. (d) Axis Bank in association with Google Pay launched ACE Credit Card today. Axis Bank ACE Credit Card is an entry level card which provides accelerated rewards on bill pay and recharge at Google Pay. This card provides the reward in the form of cashback making it simple and hassle free.
142. (a) Airtel Payments Bank Ltd has collaborated with National Skill Development Corporation (NSDC) to train and skill young people in rural areas on financial services, enabling them to find jobs and become entrepreneurs in the sector, the payments bank said in a statement. Currently only six payments banks are operational in India, including Paytm Payments Bank, Airtel Payments Bank, India Post Payments Bank, Fino Payments Bank, Jio Payments Bank and NSDL Payments Bank.
143. (c) PD Vaghela was appointed as Chairman of TRAI (Telecom Regulatory Authority of India). He has replaced R S Sharma
144. (c) Serum Institute of India Pvt. Lt (d) is now the world's largest vaccine manufacturer by number of doses produced and sold globally (more than 1.5 billion doses) which includes Polio vaccine as well as Diphtheria, Tetanus, Pertussis, Hib, BCG, r-Hepatitis B, Measles, Mumps and Rubella vaccines. It is estimated that about 65% of the children in the world receive at least one vaccine manufactured by Serum Institute Vaccines manufactured by the Serum Institute are accredited by the World Health Organization, Geneva and are being used in around 170 countries across the globe in their national immunization programs, saving millions of lives throughout the world.
145. (c) Rajat Bhatia, a veteran in Indian domestic cricket, has called it quits from all forms of the game to bring down the curtains on a career spanning 20 years.
146. (a) The International Day of Charity was established with the objective of sensitizing and mobilizing people, NGOs, and stakeholders all around the world to help others through volunteer and philanthropic activities.  
The date of 5 September was chosen in order to commemorate the anniversary of the passing away of Mother Teresa of Calcutta, who received the Nobel Peace Prize in 1979 "for work undertaken in the struggle to overcome poverty and distress, which also constitute a threat to peace".
147. (c) A wake-up call to economists who failed to foresee every recent crisis, including the cataclysm of 2008, 10 Rules is full of insights on signs of political, economic, and social change Sharma explains, for example, why autocrats are bad for the economy; robots are a blessing, not a curse; and consumer prices don't tell you all you need to know about inflation. He shows how currency crises begin with the flight of knowledgeable locals, not evil foreigners; how debt crises start in private companies, not government; and why the best news for any country is none at all. Rethinking economics as a practical art, 10 Rules is a must-read for business, political and academic leaders who want to understand the most important forces that shape a nation's future.
148. (c) Bank of Baroda (BoB), India's third-largest public sector bank, has launched 'Insta Click Savings Account' for all its customers.
149. (a) SBI General Insurance, one of the leading general insurance companies in India, announced the launch of first-of-its-kind offering, 'Shagun – Gift an Insurance', a unique gift of Personal Accident policy. This product was filed by SBI General under Insurance Regulatory and Development Authority's (IRDAI) Sandbox regulations. The key differentiating feature of the policy is that it can be gifted to anyone you want, which means it is not necessary for the policy buyer to be related to the insured.
150. (d) ICICI Bank announced the launch of 'Home Utsav', a virtual property exhibition that digitally showcases real estate projects by renowned developers from key cities across the country. The exhibition is available for everyone, including ICICI Bank's customers and those who are not customers of the Bank.
151. (c) India's largest private sector lender HDFC Bank recently launched "Shaurya KGC Card" aimed at serving the armed forces. Unveiling the new product through the virtual platform, HDFC Bank managing director (MD) and chief executive officer (CEO) Aditya Puri said it is a first-of-its-kind product which is designed specifically for the armed forces.
152. (a) American cult bike manufacturer Harley-Davidson recently said it is discontinuing its current business model in India. As part of the process, the company is planning to close its manufacturing facility in Bawal (Haryana) and significantly reduce the size of its sales office in Gurgaon, the bike manufacturer said in a statement.

153. (c) Jio Payments Bank Limited is a joint venture between the Reliance Industries and the State Bank of India with the stake of 70:30.
154. (a) Indian Air Force Day is celebrated every year by the Indian Air Force on 8th of October. This year Indian Air Force celebrated its 88th anniversary. Indian Air Force was officially established on 8 October 1932 by the British Empire as the Royal Indian Air Force. The name was changed to Indian Air Force in 1950.
155. (a) The RBI, headed by Governor Shaktikanta Das, can have a maximum of four deputy governors.
156. (b) The Central Board of Secondary Education (CBSE) and Facebook have partnered to launch curriculum on "digital safety and online well-being" and "Augmented Reality" for students and educators.
157. (c) The Reserve Bank of India (RBI) came up with a framework for pan-India Umbrella Entity for Retail Payments, wherein the central bank has said that an entity must have a minimum paid-up capital of Rs 500 crore for setting up an umbrella entity for retail payment.
158. (b) Finance Minister Nirmala Sitharaman on February 1, 2019, while presenting the budget has announced the expansion of Pradhan Mantri Kisan Urja Suraksha Utthan Mahabhiyan (PM KUSUM) Scheme under which 20 lakh farmers will now be provided with funds to set up standalone solar pumps.
159. (a) India has been ranked 105th position "Global Economic Freedom Index 2020 Annual Report" by Canada's Fraser Institute, which has been released in India in conjunction with Center for Civil Society, New Delhi-based think tank. This is the 24th edition of Economic Freedom of the World.
160. (a) Dubbed as the biggest bureaucratic reform initiative, the Union Cabinet approved 'Mission Karmayogi', a new capacity-building scheme for civil servants aimed at upgrading the post-recruitment training mechanism of the officers and employees at all levels. Prime Minister Narendra Modi said this exercise will "radically" improve the government's human resource management practices and asserted it will use state-of-the-art infrastructure to augment the capacity of civil servants.
161. (c) Federal Bank Limited is a Private sector scheduled commercial Bank. It was founded in 23 April 1931 by Mr. K.P Hormis. Federal Bank main office as Registered and Head office is in Aluva, Kochi, Kerala, India.  
Federal Bank Provides Retail Banking, Wholesale Banking, Finance and Insurance, Mortgage loans.
162. (d) World Autism Awareness Day is celebrated on 2 April every year, encouraging Member States of the United Nations to take measures to raise awareness about people with autistic spectrum disorders including autism and Asperger syndrome throughout the world.
163. (b) The International Day of Charity is an international day observed annually on 5 September. It was declared by the United Nations General Assembly in 2012. The prime purpose of the International Day of Charity is to raise awareness and provide a common platform for charity related activities all over the world.
164. (b) In RRBs, 50% share shall be held by the central government, 15% by the concerned state government and 35% by the sponsor bank. The RRB amendment act 2014 has allowed the RRBs to raise their capital from sources other than the central and state governments, and sponsor banks.
165. (a) Ruchir Sharma is an Indian investor and fund manager who has written widely on global economics and politics. A longtime columnist for newspapers and magazines around the world, he is the author of --The 10 Rules of Successful Nations. ~~It is~~ <sup>He</sup> is Powered by YONO SBI. Therefore, with this launch, SBI account holders can tap their Titan Pay watch on contactless payment POS machine without the need of swiping or inserting their SBI bank card. Payments up to Rs. 2000 can be made without entering a PIN.
167. (a) The Appointments Committee of the Cabinet has approved the appointment of PD Vaghela as the new Chairman of Telecom Regulatory Authority of India (TRAI). He will succeed Rs Sharma, who will complete his tenure as the head of the telecom.
168. (d) New Umbrella Entity (NUE) shall have a minimum paid-up capital of ` 500 crore (to support/address the need of capital for managing risks, invest in technological infrastructure, for business operations, etc). No single promoter/promoter group shall have more than 40% investment in the capital of the NUE.
169. (a) UNDP has its headquarters in New York City, but works primarily through its offices in about 170 countries and territories, helping to eradicate poverty, reduce inequalities and exclusion, and build resilience so that countries can sustain progress. As the UN's development agency, UNDP plays a critical role in helping countries achieve the Sustainable Development Goals.
170. (a) An asset management company (AMC) is a firm that invests pooled funds from clients, putting the capital to work through different investments including stocks, bonds, real estate, master limited partnerships, and more a long with high-net-worth individual portfolios.
171. (a) Atal Pension Yojana is regulated by the Pension Fund Regulatory & Development Authority Act (PFRDA). The Pension Fund Regulatory & Development Authority Act was passed on 19th September, 2013 and the same was notified on 1st February, 2014. PFRDA is subscribed by employees of Govt. of India, State Governments and by employees of private institutions/organizations & unorganized sectors.

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172. (c) The Micro Units Development & Refinance Agency Ltd (MUDRA) was set up by the Government of India (GoI). MUDRA has been initially formed as a wholly owned subsidiary of Small Industries Development bank of India (SIDBI) with 100% capital being contributed by it.
173. (a) Elon Reeve Musk is a business magnate, industrial designer and engineer. He is the founder, CEO, CTO and chief designer of Space X; early investor, CEO and product architect of Tesla.
174. (c) The NSO data revealed that retail inflation was 7.2 percent in rural India and 6.73 per cent in urban areas, taking the combined CPI-based inflation to 6.93 percent.
175. (c) The merger of Oriental Bank of Commerce and United Bank of India with Punjab National Bank became effective from April 1, 2020.
176. (d) US secretary of state and defence secretary took part in the two-plus-two dialogue with External Affairs Minister S. Jaishankar and Defence Minister Rajnath Singh.  
A host of crucial bilateral, regional and global issues were included -- China's efforts to expand influence in the Indo-Pacific region as well as its aggressive behaviour in eastern Ladakh was to figure in the talks.
177. (d) The Korean won (KRW) is the national currency of South Korea Its users denote the won by using the symbol "₩". Since 1950, it has been administered by the nation's central bank, the Bank of Korea.
178. (a) The Prime Minister launched India Post Payments Bank (IPPB) on September 1, 2018.  
It is an initiative of the government aimed at making banking services available at people's doorstep. IPPB is a wholly-owned subsidiary of Department of Post, with 100 percent Government of India equity.
179. (c) Indian IT pioneer Shiv Nadar cofounded HCL in a garage in 1976 to make calculators and microprocessors. He chairs HCL Technologies, a \$9.9 billion (revenue) company. He is third richest person in India.
180. (b) Automated Teller Machines (ATMs) set up, owned and operated by non-bank entities are called "White Label ATMs" (WLAs).  
Tata Communications Payment Solutions Limited (TCPSL) was the first company authorized by the Reserve Bank of India (RBI) to open White Label ATMs in the country. It got launched under the brand name 'Indicash'.
181. (a) Jio Payments Bank Limited is a joint venture between the Reliance Industries and the State Bank of India with the stake of 70:30.
182. (b) The Narendra Modi government launched the 'Karmayogi Yojana' for Civil Services Capacity Building (NPCSCB), in a bid to transform status-quoist and rule-obsessed civil servants working in silos into "experts".  
The scheme attempts to challenge an oft-repeated criticism against civil servants of clearing an exam in their 20s, and then doing little to build on their skills.
183. (a) The Dudhwa Tiger Reserve is a protected area in Uttar Pradesh. It covers the Lakhimpur Kheri and Bahraich districts and comprises the Dudhwa National Park, Kishanpur Wildlife Sanctuary and Katarniaghat Wildlife Sanctuary.
184. (c) Rani Lakshmi Bai Central Agricultural University is central agricultural university located in Jhansi district of Uttar Pradesh. The university was established by the government of India through the Rani Lakshmi Bai Central Agricultural University Act - 2014, passed by parliament in 2014.
185. (d) Atal Mission for Rejuvenation and Urban Transformation (AMRUT) was launched by Prime Minister Narendra Modi in June 2015 with the focus to establish infrastructure that could ensure adequate robust sewage networks and water supply for urban transformation by implementing urban revival projects.
186. (d) The Ranapratap Sagar Dam is a gravity masonry dam of 53.8 metres height built on the Chambal River at Rawatbhata in Rajasthan. It is part of integrated scheme of a cascade development of the river involving four projects starting with the Gandhi Sagar Dam in the upstream reach in Madhya Pradesh and the Jawahar Sagar Dam with a terminal structure of the Kota Barrage in Rajasthan for irrigation.
187. (c) World Tribal Day is observed on August 9 every year from 1994.  
The day is aimed at promoting and protecting the rights of the world's indigenous population.  
The date recognizes the first meeting of the United Nations Working Group on Indigenous Populations in Geneva in 1982.
188. (d) Total expenditure in 2020-21 is expected to be ₹ 30,42,230 crore, which is 12.7% higher than the revised estimate of 2019-20.
189. (a) Dandiya Raas is the socio-religious folk dance originating from Indian state of Gujarat and popularly performed in the festival of Navaratri. The dance is performed in the Marwar region of Rajasthan too.
190. (a) The World Bank has approved the Strengthening Teaching-Learning and Results for States (STARS) Programme. It will improve the quality and governance of school education in six Indian states of Himachal Pradesh, Kerala, Madhya Pradesh, Maharashtra, Odisha and Rajasthan through the Samagra Shiksha.

# SBI Clerk (Junior Associates) Prelim Solved Paper-2020

(Based on Memory)

Time : 60 minutes

Max. Marks : 100

## Reasoning Ability

**DIRECTIONS (Qs. 1-5):** Study the following information carefully and answer the questions given below.

Eight persons in XYZ company have different designations i.e. Chairman (CHM), General Manager (GM), Assistant General Manager (AGM), Deputy General Manager (DGM), Manager, Assistant Manager, Probationary Officer, Clerk in a company. The order of seniority is the same as given above i.e. CHM is the senior-most designation and Clerk is the junior-most designation. Only two persons are junior than Joy. Only one designation is there between Joy and Omkar. Only two designation is there between Omkar and Mohan. Mohan is senior than Omkar. Number of persons who are senior than Omkar is same as the number of persons who are junior than Prem. Nisha is senior than Prem but junior than Lakshya. Kishore is not in the junior-most post. Qazi is not the PO.

- How many persons are junior than Omkar?  
(a) Three (b) One  
(c) Two (d) None  
(e) Four
- How many designations are there between Nisha and Prem?  
(a) One (b) Two  
(c) Three (d) Four  
(e) Five
- Number of persons who are junior than Joy is the same as the number of persons who are senior than \_\_\_\_\_?  
(a) Mohan (b) Lakshya  
(c) Kishore (d) Nisha  
(e) Omkar
- Which of the following designations is exactly between the designations of Qazi and Omkar?  
(a) Assistant Manager (b) Manager  
(c) PO (d) CHM  
(e) AGM
- Who among the following is the Manager of the company?  
(a) Omkar (b) Prem  
(c) Joy (d) Lashya  
(e) Nisha

**DIRECTIONS (Qs. 6-8):** Study the following information carefully and answer the questions given below:

Ajay is 14m west of Balaji. Chandra is 17m south of Ajay. Dimple is 16m west of Chandra. Edinit is 30m north of Dimple. Gagan is 23m south of Balaji. Faryad is 30m east of Edinit.

- What is the shortest distance between Faryad and Gagan?  
(a) 25m (b) 27m  
(c) 36m (d) 28m  
(e) None of these

- If Himani is 16m west of Ajay then, what is the shortest distance between Himani and Edinit?  
(a) 11m (b) 12m  
(c) 13m (d) 14m  
(e) None of these
- Four of the following five are alike in certain way and hence form a group, find the one which does not belong to that group?  
(a) Ajay-Faryad (b) Balaji-Edinit  
(c) Dimple-Ajay (d) Chandra-Balaji  
(e) Dimple-Faryad

**DIRECTIONS (Qs. 9-13):** Study the following information carefully and answer the questions given below:

Eight cousins were born in four different months i.e. January, March, June and September and on two different dates i.e., 8th and 15th of the same year.

Shivam was born on 8th in one of the months having 30 days. Only three cousins were born between Shivam and Payal. Raj and Tarun were born in the same month. Raj was born after Payal. Uchit was born immediately before Payal. Number of cousin were born before Raj is same as number of cousin were born after Vinit. Qasim was born before Wasim.

- Who among the following was born on 8th of January?  
(a) Qasim (b) Raj  
(c) Payal (d) Tarun  
(e) None of these
- How many cousins were born before Vinit?  
(a) One (b) Two  
(c) Three (d) Four  
(e) More than four
- Who among the following was born in the same month as Uchit?  
(a) Wasim (b) Qasim  
(c) Payal (d) Vinit  
(e) None of these
- Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?  
(a) Tarun-Vinit (b) Payal-Tarun  
(c) Wasim-Tarun (d) Shivam-Raj  
(e) Vinit-Uchit
- Who among the following was born between Tarun and Vinit?  
(a) Raj (b) Qasim  
(c) Payal (d) Shivam  
(e) None of these



14. If in the word "RESISTER" all vowels are changed by next letter and all consonants are changed by previous letter of English alphabetical series. Then. How many letters are repeated?
- (a) None (b) One  
(c) Two (d) Three  
(e) None of these

**DIRECTIONS (Qs. 15-19):** Study the following information carefully and answer the questions given below:

Eight candidates are sitting around a circular table facing towards the center of the table in front of the GD constructor in a bank for the post of Deputy Manager. Priyam sits second to the left of Kajal. Only two candidate sit between Priyam and Usha. Tanvi faces Usha. Rachit sits third to the right of Tanvi. Suraj sit third to the left of Wazir. Vandana is an immediate neighbor of Wazir.

15. Who among the following candidate sits third to the left of Suraj?
- (a) Rachit (b) Tanvi  
(c) Priyam (d) Kajal  
(e) Usha
16. Four of the following five are alike in a certain way and hence form a group find the one which does not belong to that group?
- (a) Usha-Tanvi (b) Priyam-Rachit  
(c) Vandana-Suraj (d) Wazir-Kajal  
(e) Wazir-Suraj
17. Which of the following statement is true regarding Wazir?
- (a) Wazir faces Kajal  
(b) Wazir sits immediate left of Vandana  
(c) Vandana and Usha are immediate neighbours of Wazir  
(d) Wazir sits second to right of Rachit  
(e) All are true
18. How many candidate sits between Priyam and Usha when counted clockwise direction from Priyam?
- (a) One (b) Two  
(c) Three (d) None  
(e) More than three
19. Who among the following candidate sits second to the right of the one who faces Rachit?
- (a) Kajal (b) Tarun  
(c) Priyam (d) Suraj  
(e) Usha

**DIRECTIONS (Qs. 20-21):** In each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true and give your answer accordingly.

- (a) If only conclusion I is true  
(b) If only conclusion II is true  
(c) If either conclusion I or II is true  
(d) If neither conclusion I nor II is true  
(e) If both conclusions I and II are true

**20. Statements:**

$J \geq P > R = T, T < U \geq X$

**Conclusions:**

- I.  $X > P$   
II.  $J > T$

**21. Statements:**

$A > B < C \geq M > E, E > G = I > N$

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**Conclusions:**

I.  $M > I$

II.  $B \geq N$

**DIRECTIONS (Qs. 22-24):** Study the following series carefully and answer the questions given below.

657 824 523 487 348

22. The product of the first and third digit of which of the following number is the second highest?
- (a) 487 (b) 657  
(c) 523 (d) 824  
(e) 348
23. The sum of all the digits of how many numbers is divisible by 3?
- (a) Two (b) One  
(c) Three (d) Four  
(e) Five
24. If we arrange all the digits in decreasing order from left to right within the number, then which of the following is third lowest number thus formed?
- (a) 657 (b) 824  
(c) 523 (d) 487  
(e) 348

**DIRECTIONS (Qs. 25-29):** In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follow from the information given in the statements:

- (a) If only conclusion I follows  
(b) If only conclusion II follows  
(c) If either I or II follows  
(d) If neither I nor II follows  
(e) If both I and II follows

**25. Statement:**

Only a few store is glass.

No glass is paint.

Only a few paint is carpet.

**Conclusions:**

I. Some carpet is not glass.

II. All store can be paint.

**26. Statement:**

Only a few press is pencil.

Some pencil is pen.

Only a few easy is pen.

**Conclusions:**

I. Some easy is not pen.

II. All pen can be pencil.

**27. Statement:**

Only a few angel is girl.

All girl is gang.

Some gang is fruit.



**Conclusions:**

- I. Some girl is fruit.  
II. All fruits can be angel.

**28. Statement:**

- All desk is table.  
All table is chair.  
Some chair is wood.

**Conclusions:**

- I. Some wood is desk.  
II. No wood is desk.

**29. Statements:**

- Some Risk are Mute.  
All Mute are Case.  
All Case are toy.

**Conclusions:**

- I: No Risk is Toy.  
II: Some Toy are Risk.

**30. In the word 'COMPETITIVE', how many pairs of the letters have the same number of letters between them in the word as in English alphabet?**

- (a) None  
(b) Three  
(c) Four  
(d) Five  
(e) More than Five

**DIRECTIONS (Qs. 31-35): Study the following alphabetic series carefully and answer the questions given below:**

**P V B N H G X K J N X J A E S Q W E R P M I U T R L O E**

**31. How many letters are there in the series which is immediately preceded by vowel and immediately succeeded by consonant?**

- (a) None (b) One  
(c) Two (d) Three  
(e) More than three

**32. Which of the following letter is 9th from left of 'U'?**

- (a) A (b) E  
(c) S (d) Q  
(e) None of these

**33. If all vowels are eliminated from the series then, which of the following letter is 11th from right end?**

- (a) N (b) Z  
(c) X (d) S  
(e) None of these

**34. How many letters are there in the series which is immediately preceded by vowel and immediately succeeded by the letter which comes before 'I' in English alphabetical series?**

- (a) None (b) One  
(c) Two (d) Three  
(e) More than three

**35. Seven Painters are sitting in a line facing North. A sits one of the extreme end. One Painter sits between D and B who sits next to A. Two Painter sit between D and C who sits right of F. E and F are immediate neighbors of D. What is the position of E from left end?**

- (a) Second (b) Third  
(c) Fourth (d) Can't be determined  
(e) First

**Numerical Ability**

**DIRECTION (Qs. 36-45): Find the value of 'a' in the following questions.**

36.  $a\% \text{ of } 700 + 249 = 760$

- (a) 81 (b) 76  
(c) 83 (d) 73  
(e) 78

37.  $11^2 - 9^2 + 37 = a + 3^3$

- (a) 87 (b) 39  
(c) 73 (d) 47  
(e) 50

38.  $\frac{1}{8} \text{ of } 512 - 40\% \text{ of } 100 = \frac{a}{3} \text{ of } 24$

- (a) 24 (b) 3  
(c) 1 (d) 12  
(e) 9

39.  $7896 + 6744 + 6320 - a = 7960$

- (a) 13000 (b) 13700  
(c) 12000 (d) 15000  
(e) 15606

40.  $46 \times 60\% \text{ of } 60 - 324 \div 18 \times 3 = a$

- (a) 1604 (b) 1608  
(c) 1602 (d) 1610  
(e) 1620

41.  $21 + 343 - 112 + a^2 = 477$

- (a) 12 (b) 15  
(c) 16 (d) 24  
(e) 18

42.  $\sqrt{7^2 + 9^2} - 9 = a \times 121 \div 11$

- (a) 8 (b) 74  
(c) 14 (d) 4  
(e) 1

43.  $60\% \text{ of } a - 40\% \text{ of } 500 = 400$

- (a) 760 (b) 980  
(c) 800 (d) 1000  
(e) 500

44.  $(a^2 + 2)^2 = 4a^2 + 85$

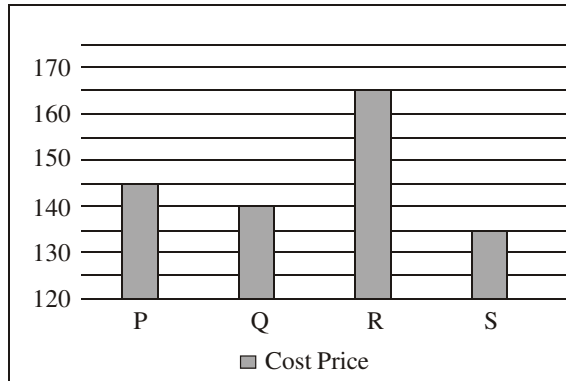
- (a) 3 (b) 9  
(c) 1 (d) 16  
(e) 4

45.  $2\frac{1}{7} - 4\frac{3}{7} + \frac{16}{2} = \frac{a}{7} + \frac{28}{2}$

- (a) 7 (b) 4  
(c)  $\frac{5}{7}$  (d)  $\frac{1}{5}$   
(e) 6

**DIRECTIONS (Qs. 46-50):** Read the given information carefully and answer the following questions.

The following bar graph shows the cost price (in Rs.) of four different products in 2018.



46. Find the difference between sum of cost price of products P and Q together and that of R and S together?
  - (a) Rs 20
  - (b) Rs 15
  - (c) Rs 10
  - (d) Rs 20
  - (e) Rs 25
47. Find the ratio of sum of cost price of P and S together to the cost price of P?
  - (a) 56:27
  - (b) 27:56
  - (c) 29:56
  - (d) 29:27
  - (e) 56:29
48. If the cost price of product Q is increased by 40% in 2019 with respect to that of in 2018 then find the increment in the cost price of Q?
  - (a) Rs 90
  - (b) Rs 80
  - (c) Rs 60
  - (d) Rs 56
  - (e) Rs 50
49. Sum of cost price of products Q and S together is approximately what percent more than the cost price of product Q?
  - (a) 96%
  - (b) 135%
  - (c) 125%
  - (d) 90%
  - (e) 80%
50. Average of the cost price of products Q and R is how much more or less than the average of the cost price of products P and S?
  - (a) Rs 20
  - (b) Rs 10.5
  - (c) Rs 15
  - (d) Rs 13
  - (e) Rs 12.5
51. Area of a square is equal to the area of a rectangle and length of the rectangle is 4m more than the side of the square. Find the perimeter of the rectangle if the breadth of the rectangle is 3 m less than the side of the square?
  - (a) 55m
  - (b) 50m
  - (c) 60m
  - (d) 40m
  - (e) 45m
52. There are some students in the class and number of candies received by each student is one-seventh of the total students in the class. If the number of students in the class

becomes one-fifth then each students gets 25 candies. Find the total number of candies distributed in the class?

- (a) 177
  - (b) 175
  - (c) 196
  - (d) 174
  - (e) 198
53. Two trains running at 72 km/h and 36 km/h respectively in opposite direction cross each other in 9 seconds then find the time taken to cross each other when running in same directions?
    - (a) 27 sec
    - (b)  $4\frac{2}{25}$  sec
    - (c) 18 sec
    - (d)  $4\frac{4}{25}$  sec
    - (e) 12 sec
  54. P and Q entered into a partnership by investing Rs. 21600 and Rs. 37800 respectively. After 6 months, R joined them with an amount of Rs. 32400 and at the end of the year profit share of R is Rs. 42000 then find the total profit?
    - (a) Rs. 112000
    - (b) Rs. 168000
    - (c) Rs. 105000
    - (d) Rs. 182000
    - (e) Rs. 196000
  55. Five years ago, age of A's father is 2.5 times of the age of A at that time and 5 years hence ratio of age of A's father to that of A is 2:1. Find the sum of present age of A and his father?
    - (a) 65 years
    - (b) 50 years
    - (c) 80 years
    - (d) 70 years
    - (e) 40 years

**DIRECTIONS (Qs. 56-60):** Each of the following question is followed by two equations I & II which you have to solve and mark answer accordingly.

- (a) if  $P \leq Q$
- (b) if  $P > Q$
- (c) if  $P = Q$  or no relation can be established
- (d) if  $P < Q$
- (e) if  $P \geq Q$
56. I.  $4x^2 + 8x + 3 = 0$   
II.  $2y^2 + 3y + 1 = 0$
57. I.  $16x^2 + 16x + 3 = 0$   
II.  $9y^2 + 27y + 20 = 0$
58. I.  $9x^2 - 9x + 2 = 0$   
II.  $9y^2 - 18y + 8 = 0$
59. I.  $49x^2 + 14x - 3 = 0$   
II.  $49y^2 + 56y + 15 = 0$
60. I.  $x^3 = 512$   
II.  $2Q^2 = 128$
61. Amount received on a certain sum when compounded annually for 2 years at R% per annum is Rs 3240 and that of in three years at the same rate of interest is Rs 3888. Find the sum?
  - (a) Rs. 2000
  - (b) Rs. 2250
  - (c) Rs. 2400
  - (d) Rs. 2500
  - (e) None of these

62. A alone can do a work in 30 days and ratio of efficiency of B to that of A is 5 : 3. If A started and worked for 10 days and left then in how many days will B do the remaining work?  
(a) 13 days (b) 24 days  
(c) 12 days (d) 25 days  
(e) 15 days
63. In an election of two candidates, 20% of votes cast were declared invalid. The winner got 70% of the valid votes and defeats the loser by 3200 votes. How many votes were cast in total?  
(a) 10000 votes (b) 13000 votes  
(c) 12000 votes (d) 11000 votes  
(e) None of these
64. In an alloy 'A', tin & steel is in the ratio of 1 : 2. In the second alloy 'B', the same element are in the ratio 2 : 3. If these two alloys mixed to form a new alloy in which tin and steel is in the ratio 3 : 5, find the ratio in which alloy 'A' and alloy 'B' are mixed?  
(a) 2 : 3 (b) 3 : 2  
(c) 3 : 5 (d) 4 : 1  
(e) 3 : 1
65. A sells his phone at 25% profit to B while B sales it to C at a loss of 20%. If C pays Rs. 3000. Find at what price A sold phone to B?  
(a) ₹ 2900 (b) ₹ 3200  
(c) ₹ 3600 (d) ₹ 3750  
(e) ₹ 3700

**DIRECTIONS (Qs. 66-70):** What should come in place of question mark (?) in the following series questions?

66. 9, 18, 32, 56, 95, ?  
(a) 153 (b) 148  
(c) 162 (d) 154  
(e) 143
67. 3, 10, 31, 94, 283, ?  
(a) 850 (b) 840  
(c) 739 (d) 735  
(e) 832
68. 4, 3, 4, 7, ? 38.5  
(a) 17 (b) 15  
(c) 13.75 (d) 22.25  
(e) 15.75
69. 3, 11, 27, 59, ?, 251  
(a) 159 (b) 118  
(c) 115 (d) 175  
(e) 123
70. 12, 13, 40, 165, 508, ?  
(a) 1328 (b) 1545  
(c) 1237 (d) 1337  
(e) 1431

### English Language

**DIRECTION (Qs. 71-77):** Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. Choose the option with that part as your answer. If there is no error, mark (E).

71. Trump has falsely asserted that (A)/he won the 2020 presidential (B)/ election and repeatedly seek to (C)/ overturn the results of the election. (D)  
(a) A (b) D  
(c) B (d) C  
(e) E
72. UMI Blockchain is convenient if the (A)/ transfer needs to be (B)/sent urgent, and the (C)/ Internet is temporarily not accessible. (D)  
(a) D (b) A  
(c) E (d) C  
(e) B
73. They visited the site to gather (A)/first hand information about the (B)/ incident and was informed that the (C)/fire was not related to Dzukou fire. (D)  
(a) B (b) E  
(c) C (d) A  
(e) D
74. Having to repeal a law is not so (A)/easy especially for a government (B)/which is extremely proud of (C)/its numerical majority in the Lok Sabha. (D)  
(a) C (b) B  
(c) E (d) A  
(e) D
75. A meeting of board of directors of the company (A)/ is scheduled to be held in Tuesday, (B)/to consider and approve unaudited (C)/financial results of the company. (D)  
(a) D (b) A  
(c) E (d) B  
(e) C
76. Once he wins, he has to figure out what (A)/he stands in, gain the respect of his (B)/biggest critic, while trying to get anything (C)/right for America's second weirdest city. (D)  
(a) E (b) D  
(c) B (d) C  
(e) A
77. The agency also seems to be aware off the (A)/impact damaged consumer trust can (B)/ have on personal health apps, and said in the notice (C)/that its eye is on the rest of the industry as well. (D)  
(a) D (b) C  
(c) B (d) E  
(e) A

**DIRECTIONS (Qs. 78-82):** In each of the following questions, a statement with a single blank is given followed by five options. Choose the most suitable word from the given options to complete the sentence meaningfully.

78. The primary purpose of a/an \_\_\_\_\_ trust is that it moves assets out of your estate, reducing your possibility of bumping up against the estate tax.  
(a) Inoperable (b) Irrevocable  
(c) Reasonable (d) Usable  
(e) Available
79. Health officials in the capital have warned that high levels of pollution will \_\_\_\_\_ the effects of the pandemic.  
(a) Exert (b) Oppress  
(c) Contend (d) Exacerbate  
(e) Toil

80. The Ghaziabad Traffic Police has launched operation "Nakel" in the district for disciplining errant motorists and restore a \_\_\_\_\_ of normalcy on district road.
- Disposition
  - Notwithstanding
  - Semblance
  - Esteem
  - Ascertain
81. In recent years, \_\_\_\_\_ has been the path-way used to enact or pursue highly partisan legislation
- Reconciliation
  - Directions
  - Inclination
  - Conditioned
  - Reaction
82. A flood in my social housing block lays bare the \_\_\_\_\_ of placing profit over people.
- Early
  - Effectively
  - Indefinitely
  - Folly
  - Legally

**DIRECTIONS (Qs. 83-87):** The question consists of six statements labelled A, B, C, D, E and F which when logically ordered form a coherent passage. Choose the option that represents the most logical order.

- It has professionally managed residences, golf courses, tennis courts and 10 miles of beach along the island.
  - That reputation only grew in the first nine months of the virus.
  - The retreat has long been regarded a safe destination.
  - In recent years, Kiawah Island has built a reputation as a mecca for well-heeled families nationally.
  - The distinctive features of Kiawah Island itself have also contributed to boosting its already-strong appeal during the novel coronavirus period.
  - Collectively, it contributed to making social distancing readily manageable even before the term "social distancing" was invented.
83. Which among the following will be the fourth sentence of the paragraph after the rearrangement?
- D
  - C
  - E
  - A
  - B
84. Which among the following will be the second sentence of the paragraph after the rearrangement?
- B
  - C
  - E
  - F
  - A
85. Which among the following will be the fifth sentence of the paragraph after the rearrangement?
- A
  - C
  - F
  - B
  - E
86. Which among the following will be the FIRST sentence of the paragraph after the rearrangement?
- B
  - D
  - C
  - F
  - A

87. Which among the following will be the third sentence of the paragraph after the rearrangement?
- F
  - D
  - E
  - B
  - C

**DIRECTIONS (Qs. 88-92):** In each question below, four words printed in bold type are given. One of these words printed in bold might either be wrongly spelt or inappropriate in the context of the sentence. Find out the word that is inappropriate or wrongly spelt, if any. The number of the word is your answer. If the words printed in bold are correctly spelt and appropriate in the context of the sentence then mark (e), i.e. 'All Correct', as your answer.

88. It has **token** no less than the highest court of the land to **reiterate** the fact that the value of a **woman's** work at home is no less **than** that of her office-going husband.
- Token
  - Reiterate
  - Woman's
  - Than
  - All are correct
89. There are **significant** challenges faced by senior citizens in the form of **chronic** illnesses and mental **conditions** in addition to frequent ill-treatment by family **members** or caregivers.
- Significant
  - Chronic
  - Conditions
  - Members
  - All are correct
90. Learning may be **priceless**, but education for all **cannot** be achieved by **skimping** on funds and if miserliness also wishes to appear **benevolent**, the combination can be seriously damaging.
- Priceless
  - Cannot
  - Skimming
  - Benevolent
  - All are correct
91. Public **objection** to the Jaitley statue was **intermittent** as a challenge to the ruling dispensation's **higher** standards of stadium **nomenclature**.
- Objection
  - Intermittent
  - Higher
  - Nomenclature
  - All are correct
92. The drama at the Capitol in Washington **obscured** the resumption of the intra-Afghan **dialogue** with the second round between the Taliban **to** the government of Afghanistan **beginning** last week.
- Obscured
  - Dialogue
  - To
  - Beginning
  - All are correct

**DIRECTIONS (Qs. 93-100):** Read the following passage and answer the following questions based on the passage. Some words are highlighted to help you locate while answering the questions.

Almost all sections of people including farmers agree that the Agricultural Produce Market Committee (APMC)-mandi policies for agricultural marketing, initiated in the 1960s for a few crops, have outlived their utility and the system needs a new policy in the face of the agricultural sector's growth slowdown, the crop-composition not widening, and investments in land not

happening. Recently, the government of the day has opened up the output market with the aim to let market forces improve efficiency and create more value for farmers and the economy. These laws state that farmers are now free to sell all their products anywhere and to anyone beyond the physical premises of APMC markets. Additionally, the laws promote contract farming through establishing partnerships between farmers and food-processing companies, and also permit unlimited hoarding of food except in special circumstances.

Three main suggestions were put forth by farmers when we recently made enquiries with them: one, their produce prices should be the cost of production plus a reasonable mark-up; two, fluctuations in prices should be minimal; and three, there should be little or no interface with legal or administrative officials - they are not comfortable dealing with the "sahibs and the police". All these farmer concerns have been ignored in the way the current laws are drafted. Additionally, as the old laws are being repealed, they said that there is a need for a wider view of the sector to include more crops. Thus, if the government encourages farmers to move from wheat to vegetables, markets for the latter should address all the above three aspects.

The first law of the Minimum Support Price-mandi is a known devil, but the new markets will be an unknown ghost with no control over them by anyone. Thus, while "malpractices" in mandis are known and local leaders (Members of Parliament, Members of the Legislative Assembly, panchayats) are often brought in to

\_\_\_\_\_ (I) farmers' anger or arbitrate in difficult situations, malpractices in the new systems are neither forecast-able nor is there any authority to report to. Next, while the government says that the mandi-MSP system will continue, the question is, for how long? If the **alternative** traders offer better prices, farmers will go there and not to the mandis. What happens after two to three years when the regulated mandis become weaker or begin to shut down due to lack of business?

There are many issues here. Traders could reduce the prices on more than one pretext, such as finding faults with the product; declining to buy on the pretext of glut (a wait and watch strategy); defaulting on payments, and so on. Since traders are few (at least locally) they can form cartels, while farmers many: this is **imminently** possible. The farmers are further handicapped by the fact that they come from long distances with loads of several quintals/tonnes of produce on hired tractors; going back owing to the transport cost incurred is not an option for them. Their situation worsens when their cash needs are immediate, which is the case for the small farmers who constitute 90-plus% of those who sell at the mandis at MSP.

The second law has somewhat similar issues. The corporate-buyers might just not buy the full quantity of the product on one or another pretext or delay payments; and if farmers complain, the corporates have access to a battery of lawyers, the fine print in contracts, the advantage of language, and, above all, the capacity to wait it out. In both the above cases, the problem is of contracts between unequals: whether it is traders or corporates, they are far fewer and with deeper pockets, and they will deal with (poor/little-educated) small farmers (about 85% have two or less hectares of land), resulting in unequal outcomes. The other issue is in regard to different regions and crops. Many proponents of the agri-marketing laws maintain that farmers from outside the wheat-

rice belts in northern India are not protesting. Evidently so, since the country is diverse with some 15 agroclimatic zones and has over 50 crops grown.

93. Why there is a need of new policy according to the given passage?
  - (i) Slowdown in the growth of agriculture sector
  - (ii) The composition of crop is not widening
  - (iii) The APMC policies are no longer effective
  - (iv) There is a lack of investment on agricultural lands
  - (a) i, ii, iv
  - (b) ii, iii, iv
  - (c) i, iii, iv
  - (d) i, ii, iii
  - (e) All of the above
94. What are the aspects the vegetable market should address if government encourages farmers to move from wheat to vegetable markets?
  - (i) The production prices should include production cost with reasonable gain
  - (ii) Minimized fluctuations in prices
  - (iii) Minimum or no dealing with legal or administrative officials
  - (iv) The farmers do not want to talk with the government
  - (a) i, ii, iv
  - (b) ii, iii, iv
  - (c) i, iii, iv
  - (d) i, ii, iii
  - (e) None of these
95. Why the author termed new markets 'an unknown ghost' as mentioned in the given passage?
  - (a) The malpractices of mandis are known but there will be no one to control the new market
  - (b) One cannot forecast malpractices of the new markets
  - (c) Both (a) and (b)
  - (d) The government claims that MSP will be revised without anymore suffering of farmers
  - (e) The alternative traders will not offer better prices for the produce
96. Which issues the author discusses if the regulated mandis shut down or get weaker?
  - (a) Traders can diminish the pricing on different aspects like poor quality produce
  - (b) Payment defaulting can occur
  - (c) Few traders are likely to form associations and farmers can't because they are large in number
  - (d) The farmers can't afford the cost spent in bringing the loads of several tones produce
  - (e) All of the above
97. What are the issues in the second law?
  - (a) The corporate buyers are free to not buy the entire quantity of the produce
  - (b) They have the privilege of finely printed contracts, language and huge pockets
  - (c) The outcomes are uneven because the contract is between unequal i.e poor farmers and affluent buyers
  - (d) All of the above
  - (e) None of these



98. Which of the following words can fit in the blank (I) to make it a grammatically correct and contextually meaningful sentence?  
 (a) Fare (b) Vain  
 (c) Vent (d) Tyro  
 (e) Foist
99. Which of the following is must opposite in meaning with **ALTERNATIVE** as highlighted in the given passage?  
 (a) Substitute (b) Unusual  
 (c) Reserve (d) Compulsion  
 (e) Replacement
100. Which of the following is most similar in meaning with **IMMINENTLY** as highlighted in the given passage?  
 (a) Clearly (b) Computing  
 (c) Approaching (d) Anxiously  
 (e) Impending

ANSW ER KEY

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1  | (e) | 11 | (b) | 21 | (a) | 31 | (e) | 41 | (b) | 51 | (b) | 61 | (b) | 71 | (d) | 81 | (a) | 91  | (b) |
| 2  | (a) | 12 | (b) | 22 | (d) | 32 | (b) | 42 | (e) | 52 | (b) | 62 | (c) | 72 | (d) | 82 | (d) | 92  | (c) |
| 3  | (d) | 13 | (a) | 23 | (a) | 33 | (c) | 43 | (d) | 53 | (a) | 63 | (a) | 73 | (c) | 83 | (b) | 93  | (e) |
| 4  | (a) | 14 | (d) | 24 | (b) | 34 | (a) | 44 | (a) | 54 | (e) | 64 | (c) | 74 | (c) | 84 | (a) | 94  | (d) |
| 5  | (b) | 15 | (c) | 25 | (a) | 35 | (d) | 45 | (b) | 55 | (c) | 65 | (d) | 75 | (d) | 85 | (a) | 95  | (c) |
| 6  | (c) | 16 | (e) | 26 | (b) | 36 | (d) | 46 | (b) | 56 | (c) | 66 | (d) | 76 | (c) | 86 | (b) | 96  | (e) |
| 7  | (c) | 17 | (e) | 27 | (b) | 37 | (e) | 47 | (e) | 57 | (b) | 67 | (a) | 77 | (e) | 87 | (c) | 97  | (d) |
| 8  | (b) | 18 | (b) | 28 | (c) | 38 | (b) | 48 | (d) | 58 | (a) | 68 | (b) | 78 | (b) | 88 | (a) | 98  | (c) |
| 9  | (a) | 19 | (a) | 29 | (b) | 39 | (a) | 49 | (a) | 59 | (e) | 69 | (e) | 79 | (d) | 89 | (e) | 99  | (d) |
| 10 | (c) | 20 | (b) | 30 | (e) | 40 | (c) | 50 | (e) | 60 | (e) | 70 | (c) | 80 | (c) | 90 | (c) | 100 | (e) |

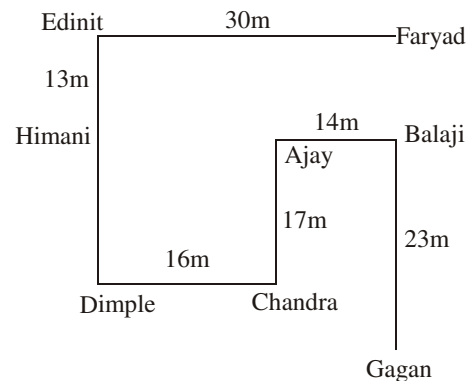
ANSWERS & EXPLANATIONS

Sol. (1-5):

| Designations      | Persons |
|-------------------|---------|
| CHM               | Mohan   |
| GM                | Laksya  |
| AGM               | Nisha   |
| DGM               | Omkar   |
| Manager           | Prem    |
| Assistant Manager | Joy     |
| PO                | Kishore |
| Clerk             | Qazi    |

- (e) Four persons are junior than Omkar.
- (a) Only one designations are there between Nisha and Prem.
- (d) Number of persons who are junior than Joy is the same as the number of persons who are senior than Nisha.
- (a) Joy's designations is exactly between the designations of Qazi and Omkar.
- (b) Prem is the Manager of the company.

Sol. (6-8):



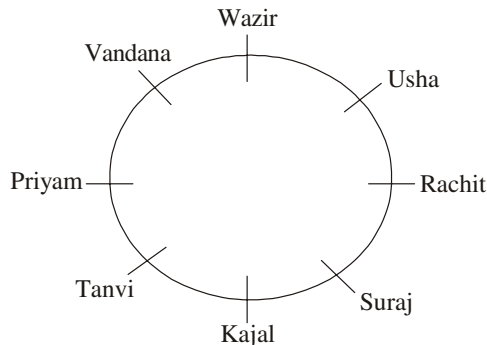
- (c) The shortest distance between Faryad and Gagan ( $23m + 13m = 36m$ )
- (c) If Himani is 16m west of Ajay then, the shortest distance between Himani and Edinit is 13m.
- (b) Balaji-Edinit does not belong to that group because Edinit is north-west of Balaji while in other first is south west of second.

Sol. (9-13):

| Months    | Dates | Persons |
|-----------|-------|---------|
| January   | 8     | Qasim   |
|           | 15    | Uchit   |
| March     | 8     | Payal   |
|           | 15    | Vinit   |
| June      | 8     | Raj     |
|           | 15    | Tarun   |
| September | 8     | Shivam  |
|           | 15    | Wasim   |

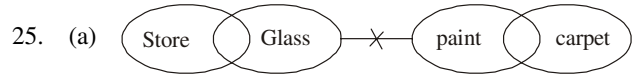
9. (a) Qasim was born on 8th of January.
10. (c) Three cousins were born before Vinit.
11. (b) Qasim was born in the same month as Uchit.
12. (b) Except Payal-Tarun there is only one cousin is born between the them. While there is two cousins born between the Payal-Tarun.
13. (a) Raj was born between Tarun and Vinit.
14. (d) **GivenWord-RESISTER**  
After applying operation-QFRJRSFQ  
Q, F and R are repeated letters.

Sols. (15-19):



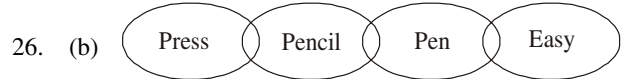
15. (c) Priyam sits third to the left of Suraj.
16. (e) Except Wazir-Suraj all are sitting opposite to each other.
17. (e) All statement are true here regarding Wazir.
18. (b) Two candidate sits between Priyam and Usha when counted clockwise direction from Priyam.
19. (a) Kajal sits second to the right of the one who faces Rachit.
20. (b) I.  $X > P$  as,  $P > R = T < U \geq X$  so, (false)  
II.  $J > T$  as,  $J \geq P > R = T$  so, (true)
21. (a) I.  $M > I$  as,  $M > E > G = I > N$  so, (true)  
II.  $B \geq N$  as,  $B < C \geq M > E > G = I > N$  so, (false)
22. (d) **Given** -657 824 523 487 348  
In 824,  $8 \times 4 = 32$  is the second highest.
23. (a) **Given** -657 824 523 487 348  
**Sum is**-18 14 10 19 15  
Hence, 2 numbers are divisible by 3.

24. (b) **Given** -657 824 523 487 348  
After applying operation- 765 842 532 874 843  
Hence, 824 is third lowest number thus formed.



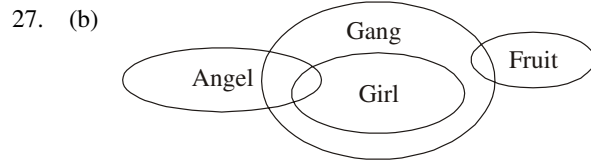
**Conclusions:**

- I. Some carpet is not glass. (True)
  - II. All store can be paint. (False)
- Hence, only conclusion I follows



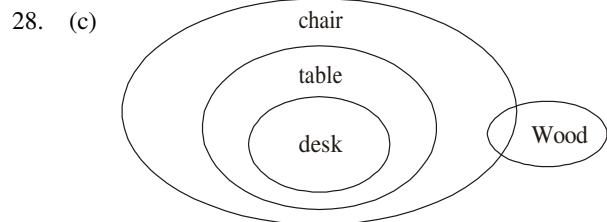
**Conclusions:**

- I. Some easy is not pen. (False)
  - II. All pen can be pencil. (True)
- Hence, only conclusion II follows



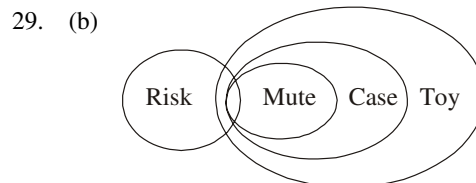
**Conclusions:**

- I. Some girl is fruit. (False)
  - II. All fruits can be angel. (True)
- Hence, only conclusion II follows



**Conclusions:**

- I. Some wood is desk. (False)
  - II. No wood is desk. (False)
- But both are complimentary pair so, our answer is either I or II follows.

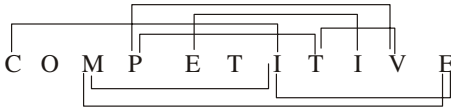


**Conclusions:**

- I: No Risk is Toy. (False)
  - II: Some Toy are Risk. (True)
- Hence, only conclusion II follows.

30. (e)

2020-36



There are eight pairs CI, PT, PV, EI, TV, EI, IM, EM.

31. (e) There are five letters in the series i.e, ESQ, ERP, UTR, AES, IUT
32. (b) E is 9th from left of 'U' letter.
33. (c) If all vowels are eliminated from the series then, letter 'X' is 11th from right end.
34. (a) None letters are there in the series like this.



Hence, E is either third or fifth position left end so; our answer is can't be determined.

36. (d)  $\frac{a}{100} \times 700 + 249 = 760$   
 $7a = 760 - 249$   
 $7a = 511$   
 $a = 73$
37. (e)  $121 - 81 + 37 = a + 27$   
 $40 + 37 = a + 27$   
 $a = 50$
38. (b)  $\frac{512}{8} - \frac{40}{100} \times 100 = \frac{a}{3} \times 24$   
 $64 - 40 = a \times 8$   
 $24 = a \times 8$   
 $a = 3$
39. (a)  $a = 20,960 - 7960$   
 $= 13000$
40. (c)  $46 \times \frac{60}{100} \times 60 - \frac{324}{18} \times 3 = a$   
 $46 \times 36 - 18 \times 3 = a$   
 $a = 1602$
41. (b)  $a^2 = 477 - 252$   
 $= 225$   
 $a = \pm 15$
42. (e)  $\sqrt{121} = a \times 11$   
 $11 = a \times 11$   
 $a = 1$
43. (d)  $\frac{60}{100} \times a - \frac{40}{100} \times 500 = 400$   
 $\frac{6}{10} \times a = 400 + 200$   
 $a = \frac{600 \times 10}{6}$   
 $a = 1000$
44. (a)  $a^4 + 4 + 4a^2 = 4a^2 + 85$   
 $a^4 = 81$   
 $a = \pm 3$

45. (b)  $\frac{15}{7} + \frac{31}{7} + 8 = \frac{a}{7} + 14$

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$$\frac{46}{7} = \frac{a}{7} + 6$$

$$\frac{4}{7} = \frac{a}{7}, \quad a = 4$$

46. (b) Required difference =  $(165 + 135) - (145 + 140)$   
 $= 300 - 285 = 15$

47. (e)  $\frac{145 + 135}{145} = \frac{280}{145} = 56 : 29$

48. (d) Required increment in cost price of Q =  $40 \times \frac{140}{100}$   
 $= \text{Rs. } 56 \Rightarrow 56 - 40 = \text{Rs. } 16$

49. (a) Required % =  $\frac{(140 + 135) - 140}{140} \times 100 \approx 96\%$

50. (e) Required difference =  $\frac{(165 + 140)}{2} - \frac{(145 + 135)}{2}$   
 $= 152.5 - 140 = \text{Rs. } 12.5$

51. (b) Let the side of the square be x m  
 Then the length of the rectangle =  $(x + 4)$  m  
 Breadth of the rectangle =  $(x - 3)$  m  
 ATQ  
 $x^2 = (x + 4) \times (x - 3)$   
 $x = 12$  m  
 Length of the rectangle = 16 m  
 and breadth of the rectangle = 9 m  
 perimeter of the rectangle =  $2(16 + 9) = 50$  m

52. (b) Let the number of students in the class be x  
 ATQ,  $x \times \frac{x}{7} = \frac{x}{5} \times 25$

$$\frac{x^2}{7} = 5x$$

$$x = 35$$

$$\text{Required number of candies} = \frac{35}{5} \times 25 = 175$$

53. (a) Sum of the length of both the trains  
 $= (72 + 36) \times \frac{5}{18} \times 9$

$$= 108 \times \frac{5}{18} \times 9 = 270 \text{ m}$$

$$\text{Required time} = \frac{270}{(72 - 36) \times \frac{5}{18}} = 27 \text{ sec}$$

54. (e) Profit share ratio

|                   |                   |                  |
|-------------------|-------------------|------------------|
| P                 | Q                 | R                |
| $21600 \times 12$ | $37800 \times 12$ | $32400 \times 6$ |
| 4                 | 7                 | 3                |

Required total profit

$$= \frac{42000}{3} \times (4 + 7 + 3) = \frac{42000}{3} \times 14 = \text{Rs. } 196000$$

55. (c) Let age of A, 5 years ago be x years

Then age of his Father 5 years ago = 2.5x years

ATQ

$$\frac{x+10}{2.5x+10} = \frac{1}{2}$$

$$x = 20 \text{ years}$$

∴ Present age of A = 20 + 5 = 25 years.

Present age of A's Father = 2.5 × 20 + 5 = 55 years.

Required sum = 25 + 55

$$= 80 \text{ years}$$

56. (c) I.  $4P^2 + 6P + 2P + 3 = 0$

$$(2P+3)(2P+1)=0$$

$$P = -\frac{3}{2}, -\frac{1}{2}$$

$$\text{II. } 2Q^2 + 2Q + Q + 1 = 0$$

$$(2Q+1)(Q+1)=0$$

$$Q = -\frac{1}{2}, -1$$

Clearly, no relation can be established.

57. (b)  $16P^2 + 12P + 4P + 3 = 0$

$$(4P+1)(4P+3)=0$$

$$P = -\frac{1}{4}, -\frac{3}{4}$$

$$\text{II. } 9Q^2 + 15Q + 2Q + 20 = 0$$

$$(3Q+4)(3Q+5)=0$$

$$Q = -\frac{4}{3}, -\frac{5}{3}$$

Clearly,  $P > Q$

58. (a) I.  $9P^2 - 6P - 3P + 2 = 0$

$$(3P-1)(3P-2)=0$$

$$P = \frac{1}{3}, \frac{2}{3}$$

$$\text{II. } 9Q^2 - 12Q - 6Q + 8 = 0$$

$$(3Q-2)(3Q-4)=0$$

$$Q = \frac{2}{3}, \frac{4}{3}$$

Clearly,  $P \leq Q$

59. (e) I.  $49P^2 + 21P - 7P - 3 = 0$   
 $(7P-1)(7P+3)=0$

$$P = \frac{1}{7}, -\frac{3}{7}$$

$$\text{II. } 49Q^2 + 35Q + 21Q + 15 = 0$$

$$(7Q+3)(7Q+5)=0$$

$$Q = -\frac{3}{7}, -\frac{5}{7}$$

Clearly,  $P \geq Q$

60. (e) I.  $P = 8$   
 II.  $Q^2 = 64$   
 $Q = \pm 8$

Clearly,  $P \geq Q$

61. (b) ATQ

$$3240 \times \frac{R}{100} = (3888 - 3240)$$

$$3240 \times \frac{R}{100} = 648$$

$$R = 20\%$$

Equivalent rate of interest when compounded annually for two years at 20% per annum = 44%

$$\text{Required sum} = 3240 \times \frac{100}{144} = \text{Rs. } 2250$$

62. (c) Ratio of efficiency of B to that of A = 5 : 3

∴ Time taken by B to that of A = 3 : 5

$$\left\{ \begin{array}{l} \text{efficiency} \propto \frac{1}{\text{Time}} \end{array} \right\}$$

A alone can do the work = 30 days

$$\text{Time taken by B to do the same work} = \frac{30}{5} \times 3 = 18 \text{ days}$$

$$\text{A's one day work} = \frac{1}{30}$$

$$\text{B's one day work} = \frac{1}{18}$$

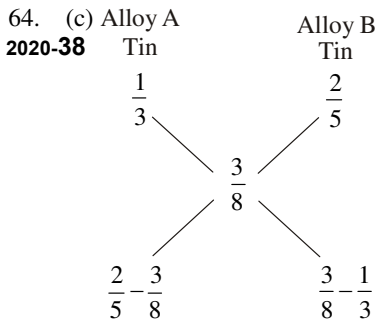
$$\text{A's 10 days work} = \frac{10}{30} \Rightarrow \frac{1}{3}$$

$$\text{Remaining work} = 1 - \frac{1}{3} = \frac{2}{3}$$

$$\text{B will do the remaining work} = \frac{\frac{2}{3}}{1/18} \Rightarrow \frac{2}{3} \times 18$$

$$\Rightarrow 12 \text{ days}$$

63. (a) Let total votes cast be 100x  
 Valid votes = 100x - 20x = 80x  
 Winner votes = 70% of 80x = 56x  
 Loser votes = 80x - 56x = 24x  
 ATQ  
 $56x - 24x \rightarrow 3200$   
 $32x \rightarrow 3200$   
 $100x \rightarrow \frac{3200}{32} \times 100 = 10,000$



$$\Rightarrow \frac{1}{40} : \frac{1}{24} \Rightarrow 3 : 5$$

65. (d) Let C.P. of phone for A be Rs. 100

$$\left( \text{Amount paid by B} = 100 \times \frac{125}{100} = \text{Rs. 125} \right)$$

Amount paid by C

$$= 125 \times \frac{80}{100}$$

$$= \text{Rs. 100}$$

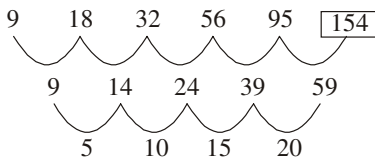
ATQ,

$$\text{CP of phone for A} = \frac{3000}{100} \times 100 = \text{Rs. 3000}$$

Required price at which A sold to B

$$= 3000 \times \frac{125}{100} = \text{Rs. 3750}$$

66. (d) Missing number = 154



67. (a) Missing number = 850

$$3 \times 3 + 1 = 10$$

$$10 \times 3 + 1 = 31$$

$$31 \times 3 + 1 = 94$$

$$94 \times 3 + 1 = 283$$

$$283 \times 3 + 1 = 850$$

68. (b) Missing number = 15

$$4 \times 0.5 + 1 = 3$$

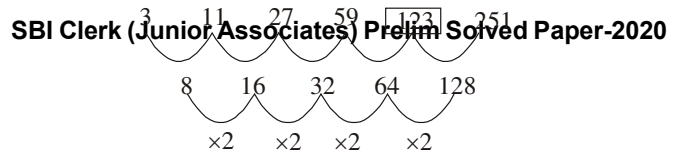
$$3 \times 1 + 1 = 4$$

$$4 \times 1.5 + 1 = 7$$

$$7 \times 2 + 1 = 15$$

$$15 \times 2.5 + 1 = 38.5$$

69. (e) Missing number = 123



70. (c) Missing number = 1237

$$12 + 1^3 = 13$$

$$13 + 3^3 = 40$$

$$40 + 5^3 = 165$$

$$165 + 7^3 = 508$$

$$508 + 9^3 = 1237$$

71. (d) The error lies in part C. The sentence is in past tense. The main verb should be in past participle or third form. Instead of "seek", "sought" should be used. The correct sentence will be,

*Trump has falsely asserted that he won the 2020 presidential election and repeatedly sought to overturn the results of the election.*

Hence, **option (d)** is the right answer choice.

72. (d) The error is in part C. Here, the sentence talks about transfer to be sent on an urgent basis and Internet is not accessible temporarily. In order to modify a verb, an adverb is used (urgently) and not an adjective (urgent). "urgently" should be used instead of "urgent". The correct sentence will be,

*UMI Blockchain is convenient if the transfer needs to be sent urgently and Internet is temporarily not accessible.*

Hence, **option (d)** is the right answer choice.

73. (c) The error is in part (C). The subject verb agreement of this sentence is not correct. With plural noun 'they', plural verb "were" should be used instead of "was". The correct sentence will be,

*They visited the site to gather first hand information about the incident and they were informed that the fire was not related to Dzukou fire.*

Hence, **option (c)** is the right answer choice.

74. (c) There is no error in any part of the given sentence.

Hence, option (c) is the right answer choice.

75. (d) The error is in part B of the sentence. To specify a day of the week, preposition "on" should be used instead of "in" in the given sentence. The correct sentence will be,

*A meeting of board of directors of the company is scheduled to be held on Tuesday to consider and approve unaudited financial results of the company.*

Hence, **option (d)** is the right answer choice.

76. (c) The error is in part B of the given sentence. **stand in** means **somebody is replacing someone on a temporary basis** and this is not what the sentence intends to mean. Here, the sentence implies that **he has to figure out what he stands "for"**. The correct phrasal verb will be **"stand for"**.



- The correct sentence will be,  
*Once he wins, he has to figure out what he stands for, gain the respect of his biggest critic, while trying to get anything right for America's second weirdest city.*  
Hence, **option (c)** is the right answer choice.
77. (e) The error is in part A of the sentence. "**Aware off**" is the incorrect phrase, and it should be "**aware of**". The correct sentence will be,  
*The agency also seems to be aware of the impact damaged consumer trust can have on personal health apps, and said in the notice that its eye is on the rest of the industry as well.* Hence, **option (e)** is the right answer choice.
78. (b) Irrevocable: Not able to be changed, reversed, or recovered; final.  
Irreversible, Irremediable, Irreparable
79. (d) Exacerbate: Make (a problem, bad situation, or negative feeling) worse.  
Aggravate, Worsen, Inflammate, Compound, Intensify
80. (c) Semblance: The outward appearance or apparent form of something, especially when the reality is different.  
Appearance, Approximation, Show
81. (a) Reconciliation: The restoration of friendly relations.  
Reuniting, Reunion, Conciliation
82. (d) Folly: Lack of good sense; foolishness.  
Evil, Wickedness
83. (b) The correct sequence of the given sentences is **DBECAAF**.  
Hence, **option (b)** is the right answer choice.
84. (a) The correct sequence of the given sentences is **DBECAAF**.  
Hence, **option (a)** is the right answer choice.
85. (a) The correct sequence of the given sentences is **DBECAAF**.  
Hence, **option (a)** is the right answer choice.
86. (b) The correct sequence of the given sentences is **DBECAAF**.  
Hence, **option (b)** is the right answer choice.
87. (c) The correct sequence of the given sentences is **DBECAAF**.  
Hence, **option (c)** is the right answer choice.
88. (a) "Token" is wrong here. It should be "**taken**" instead.  
Hence, **option (a)** is the right answer choice.
89. (e) All the highlighted words are correct. Hence, **option (e)** is the right answer choice.
90. (c) "**Skimming**" is wrong here. It's a **reading technique meant to look for main or general ideas in a text, without going into detailed and exhaustive reading.** The correct word will be "**Skimping**" which means **expending or using less time, money, or material on something than is necessary in an attempt to economize.**  
Hence, **option (c)** is the right answer choice.
91. (b) "**Intermittent**" is wrong here in the context of the given sentence. instead, it should be "**interpreted**". Intermittent: occurring at irregular intervals; not continuous or steady.  
Interpreted: explain the meaning of (information or actions).  
Hence, **option (b)** is the right answer choice.
92. (c) "**and**" should be used instead of "**to**". It is clear from the word "**between**" which indicates that there should be two parties or people for the "**second round dialogue**" and "to" is not giving any sense here.  
Hence, **option (c)** is the right answer choice.
93. (e) Refer to the first paragraph, the hint can be drawn from the lines,  
*Almost all sections of people including farmers agree that the Agricultural Produce Market Committee (APMC)-mandi policies for agricultural marketing, initiated in the 1960s for a few crops, have outlived their utility and the system needs a new policy in the face of the agricultural sector's growth slowdown, the crop-composition not widening, and investments in land not happening.*  
With the above quoted lines, read carefully, all the statements are justified with the above lines. Hence, **option (e)** is the right answer choice.
94. (d) Refer to the second paragraph, the hint can be drawn from the lines, *Three main suggestions were put forth by farmers when we recently made enquiries with them: one, their produce prices should be the cost of production plus a reasonable mark-up; two, fluctuations in prices should be minimal; and three, there should be little or no interface with legal or administrative officials - they are not comfortable dealing with the "sahibs and the police".*  
*Thus, if the government encourages farmers to move from wheat to vegetables, markets for the latter should address all the above three aspects.*  
All the three statements, i, ii, and iii are justified with the above quoted lines. Hence, option (d) is the right answer choice.
95. (c) Refer to the third paragraph, the hint can be drawn from the lines,  
*The first law of the Minimum Support Price-mandi is a known devil, but the new markets will be an unknown ghost with no control over them by anyone. Thus, while "malpractices" in mandis are known and local leaders (Members of Parliament, Members of the Legislative Assembly, panchayats) are often brought in to vent farmers' anger or arbitrate in difficult situations, malpractices in the new systems are neither forecast-able nor is there any authority to report to.*  
Both options (a) and (b) are justified with the above quoted lines. Hence, **option (c)** is the right answer choice.
96. (e) Refer to the fourth paragraph, the hint can be drawn from the lines, *There are many issues here. Traders could reduce the prices on more than one pretext, such as finding faults with the product; declining to buy on the pretext of glut (a wait and watch strategy); defaulting on payments, and so on. Since traders are few (at least locally) they can form cartels, while farmers many: this is imminently possible. The farmers*

are further handicapped by the fact that they come from long distances with loads of several quintals/tonnes of produce on hired tractors; going back owing to the transport cost incurred is not an option for them.

Here, all the options (a), (b), (c), and (d) justify the above quoted lines. Hence, option (e) is the right answer choice.

97. (d) Refer to the fifth paragraph, the hint can be drawn from the lines,

*The corporate-buyers might just not buy the full quantity of the product on one or another pretext or delay payments; and if farmers complain, the corporates have access to a battery of lawyers, the fine print in contracts, the advantage of language, and, above all, the capacity to wait it out. In both the above cases, the problem is of contracts between unequals: whether it is traders or corporates, they are far fewer and with deeper pockets, and they will deal with (poor/little-educated) small farmers (about 85% have two or less hectares of land), resulting in unequal outcomes.*

All the options (a), (b), and (c) are justified with the

above quoted lines. Hence, **option (d)** is the right answer choice.

98. (c) "**Vent**" will fit in the blank (I) to make it a grammatically correct and contextually meaningful sentence. Hence, **option (c)** is the right answer choice.

Vent:

- (a) give free expression to (a strong emotion).
- (b) the release or expression of a strong emotion, energy, etc.
- (c) an opening that allows air, gas, or liquid to pass out of or into a confined space.

Meaning given in (a) makes the word correct to fit in suitably in blank (I)

Tyro : someone new to a field or activity

Foist: Force into another

Hence, **option (c)** is the right answer choice.

99. (d) Alternative: (of one or more things) available as another possibility or choice.

Compulsion: the action or state of forcing or being forced to do something; constraint.

Hence, **option (b)** is the right answer choice.

100. (e) Imminently: Very soon

Impending: (of an event regarded as threatening or significant) about to happen; forthcoming.

Hence, **option (e)** is the right answer choice.

# SBI Clerk (Junior Associates) Mains Solved Paper-2019

(Based on Memory)

Time : 160 minutes

Max. Marks : 200

## Reasoning Ability & Computer Aptitude

**DIRECTIONS (Qs. 1-5):** Study the following information and answer the questions given below:

There are three rows i.e. row (a), row (b) and row (c) such that row (b) is in the north of row (c) and row (a) is in the north of row (b). There are 4 writers sitting in row (a) and 8 writers are sitting in the row (b) and 4 writers are sitting in the row (c).

Writers sitting in the row (c) faces north. Writers sitting in the row (a) faces south. First 4 writers sitting from west to east in row (b) faces north and last four writer sitting from west to east in row (b) faces south.

Note: All the writers sitting in the row (a) and row (c) are facing the writers sitting in the row (b).

E faces the one who sits second to the right of P. No one sits on the left of E. Only one writer sits between P and R. Only two writer sits between R and the one who faces F. D sits immediate right of F. D does not sits at the end of the row. Q sits second to the right of the one who faces D. A face the one who sits on the immediate left of Q. G faces S but does not sits at the end of the row. P is not the immediate neighbour of G. Only one writer sits between K and S. K faces the one who sits third to the right of N. J and M are immediate neighbours. J does not face D. Only two writers sits between M and L. More than two writer sits between B and C, who does not face L. C does not face south.

- How many writers sit between A and G?  
(a) One (b) None  
(c) Three (d) Two  
(e) None of these
- Who among the following sits second to the right of C?  
(a) F (b) D  
(c) G (d) L  
(e) None of these
- Four of the following five belongs to a group following a certain pattern find the one that does not belong to that group.  
(a) ML (b) CB  
(c) RF (d) ED  
(e) KS
- Which among the following pairs sits at the ends of the rows?  
(a) BS (b) EQ  
(c) KG (d) RM  
(e) None of these
- How many writers sit on the right of L?  
(a) Three (b) One  
(c) No one (d) Four  
(e) None of these

**DIRECTIONS (Qs. 6-10):** Study the following information carefully and answer the given questions.

A word and number arrangement machine when given an input of words and numbers rearranges them following a particular rule.

The following is an illustration of input and rearrangement.

Input: 44 74 TBEF WRAK 97 NLDG 31 67 KEOR SXCP AKRW

Step I: 92 44 74 TBEF NLDG 31 67 KEOR SXCP AKRW

Step II: 79 92 44 NLDG 31 67 KEOR SXCP AKRW BEFT

Step III: 62 79 92 44 NLDG 31 KEOR AKRW BEFT CPSX

Step IV: 49 62 79 92 31 KEOR AKRW BEFT CPSX DGLN

Step V: 26 49 62 79 92 AKRW BEFT CPSX DGLN EKOR

Step V is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

**Input: IKGE 42 71 RTBC 86 PKCT 25 KDSM 59 VATW**

- How many steps would be needed to complete the arrangement?  
(a) V (b) VII  
(c) VI (d) IV  
(e) None of these
- Which step number would be the following output?  
47 54 66 91 IKGE 25 ATWV BCRT CKPT DKMS  
(a) II (b) III  
(c) V (d) IV  
(e) None of these
- Which of the following would be Step III?  
(a) 54 66 91 IKGE 42 25 KDSM ATWV CKPT BCRT  
(b) 54 66 91 IKGE 42 25 KDSM ATWV BCRT CKPT  
(c) 66 54 91 IKGE 42 25 KDSM ATWV BCRT CKPT  
(d) 54 91 66 IKGE 42 25 KDSM ATWV BCRT CKPT  
(e) None of these
- Which of the following element would be the 4<sup>th</sup> to the left of the one which is 8<sup>th</sup> from the left in the step IV?  
(a) 91  
(b) IKGE  
(c) 66  
(d) CKPT  
(e) None of these
- In step V, which of the following element would be on eighth position from the right end?  
(a) ATWV (b) BCRT  
(c) 66 (d) 54  
(e) None of these
- In the word 'RELATIONSHIP' all consonants are written as their preceding letter and all vowels are written as their following letters. Now all letters are arranged in alphabetical order from left to right and all the repeated letters are eliminated. Then, how many such pairs of letters are there, each of which have as many letters between them in the word (in both forward and backward direction) as they have between them in the English alphabetical series?  
(a) Seven (b) Six  
(c) Four (d) Three  
(e) More than eight

2019-2

SBI Clerk (Junior Associates) Mains Solved Paper-2019

12. If we form the word by 1<sup>st</sup>, 3<sup>rd</sup> and 5<sup>th</sup> letter of 'CELEBRATE' and 1<sup>st</sup> and 4<sup>th</sup> letter of 'ALIKE' then, what will be the 3<sup>rd</sup> letter from right?
- (a) B (b) A  
(c) L (d) E  
(e) None of these

**DIRECTIONS (Qs. 13-15):** Study the following information carefully and answer the questions given below.

- P%Q (32)- A (42 m) is in north of Q  
P\$Q (17)- A (27 m) is in south of Q  
P#Q (18)- A (28 m) is in east of Q  
P&Q (19)- A (29 m) is in west of Q  
R#S (20), U%R (21), B&U (23), P\$B (41), Q#P (48), J%Q (16)
13. U is in which direction with respect to Q?  
(a) North (b) West  
(c) North-west (d) East  
(e) South-east
14. If Z is the midpoint of the line formed between R and J, then what is the distance between S and Z?  
(a) 35.5m (b) 34m  
(c) 42.5m (d) 37.5m  
(e) None of these
15. What is the distance between S and J?  
(a) 50m (b) 51m  
(c) 46m (d) 48m  
(e) 55m

**DIRECTIONS (Qs. 16-20):** In the following questions, the symbols %, @, #, × and & are used with the following meaning as illustrated below-

- 'A#B' means 'A is not greater than B'  
'A×B' means 'A is neither equal to nor smaller than B'  
'A%B' means 'A is not smaller than B'  
'A@B' means 'A is neither smaller than nor greater than B'  
'A&B' means 'A is neither greater than nor equal to B'

Now in each of the following questions assuming the given statement to be true, find which of the conclusions given below them is/are definitely true and give your answer accordingly.

- (a) If only conclusion I follows.  
(b) If only conclusion II follows.  
(c) If either conclusion I or II follows.  
(d) If neither conclusion I nor II follows.  
(e) If both conclusions I and II follow.
16. **Statements:** U × V % W % X @ Y @ Z  
**Conclusions:** I. U % X  
II. X @ Z
17. **Statements:** A # B × C × D @ E  
**Conclusions:** I. A × D  
II. D @ B
18. **Statements:** M % N × O % P; O × R % S  
**Conclusions:** I. Q @ M  
II. S × N
19. **Statements:** B # D @ F # G × H % C  
**Conclusions:** I. B @ G  
II. G @ B
20. **Statements:** J % K @ L # M; K × O @ P  
**Conclusions:** I. P @ M  
II. J × K

**DIRECTIONS (Qs. 21-25):** Study the following information carefully and answer the questions given below:

Six students are sitting in a row. Some of them are facing North and some are facing South. They are of different ages. Student whose age is even numbered doesn't sit immediate right of the student whose age is even numbered.

Two students sit between A and E and one of them sits at extreme end. Three students are sitting between the students whose age is 16 and 44. Student whose age is 17 sits 2<sup>nd</sup> to the left of E. There are as many students sit between E and student whose age is 17 as between the students whose ages are 17 and 30. B sits immediate right of the student whose age is 17. One student sits between D and F and neither of them sit at extreme end. B is older than C. E whose age is even numbered is older than F who faces North. Student whose age is 22 sits 3<sup>rd</sup> to the left of the student whose age is 21.

21. How many students are sitting between C and the student whose age is 22?  
(a) One (b) Three  
(c) Two (d) Four  
(e) None
22. Who among the following sits immediate right of F?  
(a) D  
(b) Student whose age is 21  
(c) E  
(d) Student whose age is 44  
(e) None of these
23. What is the position of B with respect to the 2<sup>nd</sup> youngest student?  
(a) 2<sup>nd</sup> to the right (b) Immediate left  
(c) Immediate right (d) 2<sup>nd</sup> to the left  
(e) None of these
24. What is the age of the student who sits immediate left of D?  
(a) 16 (b) 17  
(c) 29 (d) 22  
(e) None of these
25. How many students are facing North?  
(a) Two (b) Three  
(c) One (d) None  
(e) More than three

**DIRECTIONS (Qs. 26-30):** Study the following information and answer the given questions:

In alphabetical series each consonant is assigned a different number from 1-6 (for ex- B is coded as 1, C-2..... H-6) and again those numbers get repeated (for ex- J-1, K-2.... so on). And for the codes of vowels it starts from the numeric code of Z i.e. if the code of Z is 2 then the code of vowel A is 2 and code of E is 3 and so on till U which is coded as 6.

Note: The code of vowels lies in the range of 1 to 7.

Besides the above information, following operations are to be applied for coding the words given in the questions below.

If the two immediate digits are same (in the code) then the digit of the letter having higher place value in the English alphabet will be changed to '@' i.e. If the code of a word is '225' hence the code will be changed to '@25' and if the two immediate digits (in the code) are in the form such that the preceding digit is one more than its succeeding digit then the higher digit will be changed to '©' i.e. If the code of a word is '657' hence the code will be changed to '©57'.

26. If the code for the word 'FO\_\_ED' is coded as '462®©3' then what letters will come in the fill in the blanks to make it a meaningful word?  
 (a) RM (b) AL  
 (c) EM (d) AD  
 (e) Either (b) or (d)
27. Which of the following word will be coded as '426©2©3'?  
 I. FLECKED II. TROAKED  
 III. FROSKED  
 (a) Only I (b) Only II  
 (c) Either II or III (d) Either I or III  
 (e) All of the three
28. Which of the following combination of the words and codes is/are true?  
 (a) BANKING - 13525®5  
 (b) ACHIEVE- ©2©54©4  
 (c) BURNING- 172®5®5  
 (d) DISPUTE- 35367®4  
 (e) All are true
29. If the code for the words 'HOPE YOU\_' is coded as '6®®42676©3®462' in the given coded pattern, then what will be the missing word?  
 (a) GOOD (b) HEALTHY  
 (c) HAPPY (d) FINE  
 (e) Either (b) and (d)
30. What is the code for 'PERFECTION'?  
 (a) 5®425424©5 (b) 642®4245©5  
 (c) 4264®2245© (d) 54©622®54®  
 (e) None of these

**DIRECTION (Q. 31):** Study the following information carefully and answer the questions given below:

Eight girls are sitting in a row and all are facing North. Only two girls sit to the right of Aaliya. Two girls sit between Aaliya and Bindu. Three girls sit between Cherry and Gauri. Erwin and Gauri are immediate neighbors of Bindu. Deepa sits immediate left of Erwin. Fida sits 2<sup>nd</sup> to the right of Hema.

31. How many girls are sitting right of Gauri?  
 (a) Two (b) Three  
 (c) Four (d) Five  
 (e) None of these
32. Rooftop solar power growth has demonstrated an overall positive trend, But this will need to be scaled up massively to achieve the national target.

**Assumption:**

- (I) With ongoing improvements to solar cell efficiency and battery technology, rooftops will only get more attractive in the future.  
 (II) Major **solar** projects that connect to the grid often face the challenge of land acquisition and transmission connectivity.  
 (III) A survey helps determine usable rooftops, separating them from green spaces, and analyses the quality of the solar resource.  
 (a) Only II follows (b) Both II and III follows  
 (c) Both I and III follows (d) Only I follows  
 (e) Both I and II follows

33. To provide proper knowledge to the student-in the education sector, we need to enhance our education system. To get better education system, we need good teachers. To provide good teachers, we again need good education.

In India there are some good institutes too but most of the students go for a 9:00 to 5:00 job rather than trying the career in teaching field which requires post-graduation as minimum eligibility criteria because they do not get a satisfied salary there.

**Course of Action-**

- (I) The salary of the teachers should be raised to boost up them for opting teaching as career.  
 (II) The minimum eligibility criterion to be a teacher should be graduate rather than post-graduation and PhD to become a teacher as students can get a job even after graduation.  
 (a) Only II follows (b) Only I follows  
 (c) Either I or II follows (d) Neither I nor II follows  
 (e) Both I and II follows

**DIRECTIONS (Qs. 34-38):** Study the following information carefully and answer the questions given below:

Six persons are working in a Bank. Their designations are Client Service Manager (CSM), Customer Loan Processor (CLP), Mortgage Consultant (MC), General Manager (GM), Chief Finance Officer (CFO), Finance Officer (FO). Sequence of the posts are as above i.e. the post of Client Service Manager (CSM) is higher than Customer Loan Processor (CLP), the post of Customer Loan Processor (CLP) is higher than Mortgage Consultant (MC) and so on the post of Chief Finance Officer (CFO) is higher than Finance Officer (FO). They have different years of experiences. They get different annual salaries.

Only two person's designation is lower than the designation of the person whose annual salary is 11 lakhs. There are as many posts above the post of the person whose annual salary is 18 lakhs as below the post of the person who have 5-year experience. Annual salary of CSM is 10 lakhs. There are three posts in between the post of the persons whose experience are 2 years and 3 years. Person whose annual salary is 18 lakhs have just higher post than the post of the person who have 4 years' experience and just lower post than the post of the person who have 6 years' experience. Two posts are between the posts of the person who have 1 years and 6 years' experience. Person whose annual salary is 9 lakhs have higher post than the person whose annual salary is 13 lakhs and lower post than the person whose annual salary is 8 lakhs. Person whose salary is 13 lakhs doesn't have 2 years' experience.

34. Who among the following has lowest salary?  
 (a) Person who is CLP  
 (b) Person who have 4 years' experience  
 (c) Person who is GM  
 (d) Person who have lowest experience  
 (e) None of these
35. Person who is GM have how many years' experience?  
 (a) 1 years (b) 2 years  
 (c) 3 years (d) 6 years  
 (e) None of these



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36. How many persons are senior than the person whose annual salary is 18 lakhs?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three
37. Which of the following is the annual salary of the person who is CFO?  
 (a) 8 lakhs (b) 9 lakhs  
 (c) 11 lakhs (d) 13 lakhs  
 (e) None of these
38. Which of the following pair of combination is/are true?  
 (a) CLP - 8 lakhs (b) GM - 5 years  
 (c) MC - 6 lakhs (d) CFO - 9 lakhs  
 (e) None is true

**DIRECTIONS (Qs. 39-40):** *There are some criteria which will be considered during appraisal of employee-Statement by manager of a company.*

- Punctuality and sincerity are one of the key points which will be surely reviewed.
  - Hard work and dedication towards work will be applauded.
  - Just to quantify an amount in the salary package of employee with no reason will not be entertained.
39. Which of the following can be inferred from the give statement?  
 I. Punching machine of office will be evaluated by HR.  
 II. There will be minimum 10% increment for deserving employee based on their performance.  
 III. Some of employees of company have done a tremendous job with complete determination and enthusiasm.  
 (a) Only I (b) Both II and III  
 (c) Both I and III (d) Only III  
 (e) None of these
40. Which of the following undermines the statement given by Manager?  
 I. Increment of 15% has been done for all the employees whose 1 year is completed.  
 II. Performance chart has been prepared by leaders of different department based on their proficiency.  
 III. Relaxation time for late coming of 240 minutes in a year i.e. of 10 minutes twice in a month is given to all employees.  
 (a) Only II (b) Both II and III  
 (c) Both I and III (d) Only I  
 (e) None of these

**DIRECTIONS (Qs. 41-45):** *Study the following information and answer the questions given below:*

There are nine container which are kept one above the other such that the container which is placed at the bottom most position is numbered 1 and so on till the container which is placed at the top position is numbered 9. All the Containers contain different number of Toffees in it.

**Note:** The number of Toffees in a container is equal to the multiple of the place number of the container which is kept immediately above it i.e. The number of Toffees in the container which is kept at the bottom is equal to the multiple of is 2, 4, 6... and so on and the number of Toffees in the container which is placed at the top (9<sup>th</sup> position) is 10, 20, 30 and so on. Only two containers are kept between the container having 42

Toffees and container P. container X is kept at the odd number position but immediately below container U. There is only one container is kept between container T and container having 25 Toffee. container S is kept immediately above the container containing 63 Toffees. container T does not contain 63 Toffees. The number of Toffees in container V is equal to the difference between the number of Toffees in container S and container X. container Q is kept above the container having 8 Toffees. container V contains 21 less Toffees than container P contains. Only three containers are kept between container S and the container containing 12 Toffees. Only two containers are kept between container W and the container having 12 Toffees. More than three containers are kept between Box-container R and container W. The container having Toffees which is a perfect square of 3 is kept immediately above container R. The number of pens in container S is equal to the sum of the number of Toffees in container W and the container which is placed at 2<sup>nd</sup> position.

41. Which among the following box-container 42 Toffees?  
 (a) Container S (b) Container W  
 (c) Container Q (d) Container T  
 (e) Container X
42. How many containers are kept above container U?  
 (a) Three (b) Two  
 (c) Four (d) Five  
 (e) None of these
43. Number of container between X and the container having 63 Toffees is same between the container Q and the container?  
 (a) containers V  
 (b) 42 Toffees  
 (c) 81 Toffees  
 (d) containers R  
 (e) Both (a) and (c)
44. Container U contains how many Toffees?  
 (a) 25 (b) 42  
 (c) 63 (d) 81  
 (e) None of these
45. Total number of Toffees in the container P, V and X is?  
 (a) 153 (b) 149  
 (c) 155 (d) 151  
 (e) None of these
46. Begusarai, a district in Bihar which has seen the phase of kidnapping, extortion, murder to "The Industrial city of Bihar". Nowadays there are 4 major industries in Begusarai. Growth rate of Begusarai is top amongst all districts of Bihar and 5<sup>th</sup> among all districts of India in year 2017. Which of the following can be inferred from the above statement?  
 I. Opportunities of the employment has been increased in Begusarai.  
 II. There is no case of murder, kidnapping and extortion in 2017.  
 III. People of Begusarai are hardworking and keen to go forward.  
 IV. Top industrialists of India are desirous to have their industry in Begusarai.  
 (a) Only II (b) Only I and III  
 (c) Only I (d) Only III and IV  
 (e) None of these

47. **Statement:** Start to think of travelling by train for a holiday. A train journey can give one a better view of places on the way which an air journey cannot give. You can walk around whenever you want, meet other travelers and locals, relax and watch the landscape go peacefully by. Train travel is both a beautiful and affordable way to see the country, and no trip is more scenic than the trip by trains.

**Conclusions:**

- I. While going for a holiday, people want to enjoy the view of the places on the way.
- II. People should not travel by air when they are going for a holiday.

Which of the following can be concluded from the given statement?

- (a) Only I follows
- (b) Only II follows
- (c) Both I and II follow
- (d) None follows
- (e) Either I or II follows

**DIRECTIONS (Qs. 48-50):** Study the following information carefully and answer the questions which follow—

'E @ F' means 'E is parent of F (either mother or father)'

'E # F' means 'E is sister of F'

'E \$ F' means 'F is grandchild of E'

'E % F' means 'E is brother of F'

'E & F' means 'E is the son-in-law of F'

'E \* F' means 'E is the wife of F'

'E © F' means 'F is the mother of E'

There are some members in a family having three generation. The relation between the different members of the family are defined as follows.

Q@U#T

X&S

V%W\*X

R@W

U\*V%W©S

T©P\$M

R\$Y

48. If M is the only child of V, then how is M related to Q?
  - (a) Son
  - (b) Grandson
  - (c) Daughter
  - (d) Grand daughter
  - (e) Can't be determined
49. If P has only one son, then how is T related to V?
  - (a) Son
  - (b) Brother-in-law
  - (c) Brother
  - (d) Father
  - (e) None of these
50. If M has no sibling and R has no granddaughter, then how is Y related to X?
  - (a) Daughter
  - (b) Wife
  - (c) Nephew
  - (d) Son
  - (e) Cannot be determined

### Quantitative Aptitude

**DIRECTIONS (Qs. 51 - 55):** Study the following data carefully and answer the questions:

There are total five airways AA, BB, CC, DD and EE by which a person can book his flight ticket. The fare of a airways depends on base fare, taxes/surcharge and convenience fee as given below:

Total fare = Base fare + Taxes/Surcharge + Convenience fee  
Taxes/Surcharge = 25% of Base fare

Convenience fee for one – way = 10% of Base fare + 20% of Taxes/Surcharge

Base fare for round trip = One – way base fare + `908

Convenience fee for round trip = 15% of Base fare + 30% of Taxes/Surcharge

Base fare for each airways is different and based on the distance between origin and destination. Table given below shows the base fare calculator of those different airways:

| Airways | Base fare (If distance between origin and destination is D) |
|---------|-------------------------------------------------------------|
| AA      | $2D + 500$                                                  |
| BB      | $3D - 1000$                                                 |
| CC      | $36\% \text{ of } (2D + 3500)$                              |
| DD      | $30\% \text{ of } [3.5D + (2D/3)]$                          |
| EE      | $80\% \text{ of } (0.01D^2 - 0.75D)$                        |

51. If Akshay goes from Delhi to Patna by airways AA and comes back by airways BB and distance between Delhi and Patna is 1200 km, then what is difference between his total fare from Delhi to Patna and that from Patna to Delhi?
  - (a) `420
  - (b) `380
  - (c) `640
  - (d) `560
  - (e) None of these
52. Two persons Manu and Sindhu goes from Bhopal to Pune for some office meeting and travel expense is given by the company. Manu goes by BB and Sindhu goes by CC, then what is the total reimbursement made by the company to both the persons if the distance between Bhopal to Pune is 750 km?
  - (a) `3580
  - (b) `4270
  - (c) `4830
  - (d) `3670
  - (e) None of these
53. What is the difference between total fare amount for Sapna and that for Rajat when both travels round trip between Chennai and Bangalore. Sapna goes by AA and comes back by BB while Rajat goes by CC and comes back by the same airways? Assume distance between Chennai and Bangalore is 600 km.
  - (a) `225
  - (b) `445
  - (c) `335
  - (d) `285
  - (e) None of these
54. Salman goes from Shrinagar to Ajmer for vacation by airways CC and comes to Shrinagar by airways DD. If distance between Shrinagar to Ajmer is 2000 km, then fare from Shrinagar to Delhi is what per cent more than that from Ajmer to Shrinagar?
  - (a) 12%
  - (b) 8%
  - (c) 16%
  - (d) 18%
  - (e) None of these
55. Uday goes from Kolkata to Hyderabad by airways EE and total fare amount for Uday is `3528, then what is the distance between Hyderabad and Kolkata?
  - (a) 700 km
  - (b) 550 km
  - (c) 625 km
  - (d) 600 km
  - (e) None of these

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56. Arka Pratap divides a certain number by 5, 7 and 8 successively, the remainders are 2, 3 and 4 respectively. What would be the remainder if the order of the division is reversed?  
 (a) 6, 5 and 2 (b) 5, 5 and 2  
 (c) 4, 5 and 2 (d) 2, 5 and 4  
 (e) None of These
57. Vijay, Ajay and Sanjay enter into a partnership. Vijay contributes  $\frac{1}{4}$  of the capital for half of the time. Ajay advances  $\frac{1}{5}$  of the capital for  $\frac{1}{4}$  of the time. Sanjay contribute the remaining capital for the whole time. Find the share of Ajay and Sanjay together in the profit of ₹ 17,400?  
 (a) ₹ 14,400 (b) ₹ 16,500  
 (c) ₹ 6,000 (d) ₹ 14,700  
 (e) None of These
58. The ratio between the present ages of Sanjeet and Manjeet is 5:3 respectively. The ratio between Sanjeet's age 4 years ago and Manjeet's age 4 years hence is 1:1. What is the ratio between Sanjeet's age 4 years hence and Manjeet's age 4 years ago?  
 (a) 1:3 (b) 2:1  
 (c) 3:1 (d) 4:1  
 (e) None of These
59. What is the probability that when 2 dice and 4 coins are thrown simultaneously, there is a sum of 7 on the dice and at least 2 heads on the coins?  
 (a)  $\frac{13}{96}$  (b)  $\frac{11}{96}$   
 (c)  $\frac{12}{169}$  (d)  $\frac{11}{125}$   
 (e) None of These
60. Two passenger trains of length 500 m and 750 m have the speeds of 33 km/hr and 60 km/hr respectively. In what time will the trains be able to completely pass each other, given that the trains are moving in the same direction with the faster train approaching the slower?  
 (a) 200 sec. (b) 3 min. 2 sec.  
 (c) 180 sec. (d) 166.67 sec.  
 (e) None of These

**DIRECTIONS (Qs. 61 - 65):** Study the following data carefully and answer the questions:

An exam is conducted that consists of three sections: Math, Science and English. Sectional marks can be calculated as mentioned below:

Sectional marks = 5 \* Right answers – 2 \* Wrong answers – 0.5 \* Un-attempted questions

Normalized marks in any section (If Right answers are  $\geq 80\%$ ) = 1.2 \* Sectional marks

Normalized marks in any section (If Right answers are  $\geq 60\%$  and  $< 80\%$ ) = 1 \* Sectional marks

Normalized marks in any section (If Right answers are  $< 60\%$ ) = 0.8 \* Sectional marks

Total marks in the exam = Normalized marks in Math + Normalized marks in Science + Normalized marks in English

Total questions in the test are 100 out of which 35 are from Math section, 35 from Science section and remaining 30 are from English section.

Table given below shows the ratio of number of Right answers to the number of Wrong answers marked by five different students Abha, Banty, Charak, Debu and Enna in all the three sections:

| Students | Ratio (Right : Wrong) in Math | Ratio (Right : Wrong) in Science | Ratio (Right : Wrong) in English |
|----------|-------------------------------|----------------------------------|----------------------------------|
| Abha     | 6:1                           | 5:3                              | 3:1                              |
| Banty    | 15:1                          | 5:1                              | 7:3                              |
| Charak   | 5:2                           | 3:2                              | 4:3                              |
| Debu     | 1:1                           | 4:1                              | 17:7                             |
| Enna     | 2:1                           | 5:3                              | 3:1                              |

61. If Abha attempts 80 questions and ratio of attempted questions in Math, Science and English is 7 : 8 : 5 respectively, then what is the total mark obtained by her in the test?  
 (a) 252.8 (b) 272.9  
 (c) 264.7 (d) 246.4  
 (e) None of these
62. If Banty left 19 questions in Math, 23 questions in Science and 20 questions in English un-attempted, then what will be the ratio of sections marks of him in Math, Science and English respectively?  
 (a) 127: 69: 38 (b) 87: 39: 28  
 (c) 27: 9: 13 (d) 135: 89: 58  
 (e) None of these
63. If Charak attempted, 60% of total Math questions in Math,  $\frac{3}{71}$  % of total questions in Science and 70% of total questions in English, then total right answers are what percent more than total wrong answers marked by him?  
 (a) 56% (b) 73%  
 (c) 64% (d) 68%  
 (e) None of these
64. Students Debu marked 15 questions in Math, 20 questions in Science and 17 questions in English correctly, then what will be the ratio of normalized marks obtained by him in Math, Science and English respectively?  
 (a) 3: 2: 4 (b) 1: 3: 2  
 (c) 3: 1: 2 (d) 1: 2: 3  
 (e) None of these
65. If the ratio of number of attempted questions by Enna in Math, Science and English is 6: 4: 5 respectively and total marks obtained by him in the test is 147, then how many did he left unattempted in the test?  
 (a) 50 (b) 40  
 (c) 45 (d) 75  
 (e) None of these

66. Kalraju can complete a piece of work in 30 days. Efficiency of J. Murthy is \_\_\_\_\_ times the efficiency of Kalraju. Kalraju and Mithun together can complete the work in 20 days. If efficiency of Riyas is 1.5 times the efficiency of Mithun, number of days taken by J. Murthy and Riyas to complete the work is \_\_\_\_\_. Which of the following option/options satisfy the given condition?
- 1.5, 40/3
  - 2, 15
  - 3, 8
- Only I and II
  - Only I and III
  - Only II and III
  - All I, II and III
  - None of these
67. Arjun and Banita together can complete the work in 24 days. Arjun and Chahak together can complete a piece of work in 32 days and with the help of Dablu they can complete the work on 24 days. Efficiency of Banita is two times the efficiency of Dablu. From the above statement which of the following can be determined.
- Arjun alone complete the work
  - Chahak alone complete the work
  - Chahak and Dablu together can complete the work
  - Banita alone complete the work
- All I, II, III and IV
  - Only I and III
  - Only II
  - Only I, III and IV
  - Cannot be determine
68. Two trains Taj mail and JP mail in the length of 350 m and 250 m respectively and crosses the pole in 21 seconds and 10 seconds respectively. From the above statement which of the following can be determined.
- Time taken by train Taj mail crosses the train JP mail running in opposite direction
  - Length of the bridge, If Train Taj mail crosses the bridge in 36 seconds
  - Time taken by Train JP mail crosses a man running in same direction at the speed of 30 kmph.
  - Ratio of speed of train Taj mail to train JP mail
- All I, II, III and IV
  - Only II and IV
  - All I, II and IV
  - Only II
  - Cannot be determine
69. If the volume of the cuboid is  $2016 \text{ cm}^3$  and the radius and height of the cone is equal to the breadth and length of the cuboid. The ratio of the length, breadth and height of the cuboid is 24:7:12. From the above statement which of the following can be determined.
- Slanting height of the cone
  - Diagonal of the cuboid
  - Volume of the cone
  - Surface area of the cuboid
- All I, II, III and IV
  - Only I
  - Only I and IV
  - Only IV
  - Cannot be determine
70. There are total \_\_\_\_\_ employees in a office. Some employees work only in Hindi, some work only in English and some work on both 80% of the employees work in Hindi, 45% of the employees work in English. Number of employees who work in both the subjects is \_\_\_\_\_. Which of the following option/options satisfy the given condition?
- 800, 200
  - 1200, 400
  - 1000, 200
  - All of the above
  - None of the above

**DIRECTIONS (Qs. 71- 75):** Study the following information carefully and answer the questions given below.

Market share of various companies in different product categories (sales value) in 2018

| Washing Machine | Audio System | Other Products |
|-----------------|--------------|----------------|
| Akai 30%        | HTC 19 %     | Sony 20%       |
| BPL 26%         | BPL 38%      | BPL 31%        |
| IFB 44%         | Xiomi 3%     | Samsung 15%    |
| _____           | Godrej 40%   | IFB 34%        |

**LG sales in product categories 2018**

| Category        | Sales (Rupees in crores) |
|-----------------|--------------------------|
| Washing Machine | 337                      |
| Audio System    | 190                      |
| Others          | 388                      |

71. By what percentage was the sales turnover of Akai greater than Godrej in 2018? Assume the companies do business only in the product categories shown in the chart.
- 60%
  - 72%
  - 80%
  - 95%
  - None of These
72. If in 2017 the market share of the various brands in all the product categories was exactly similar to the market share in 2018, then what was the turnover of IFB in 2017? (Rupees in crores)
- 1300
  - 1925
  - 1309
  - 1280
  - Cannot be determined
73. The sale of BPL Audio systems increased by 20% every year since 2015, but its market share declined by 1% point every year since 2015. What was the total Audio system market worth in 2015?
- 260 crore
  - 274 crore
  - 268 crore
  - 245 crore
  - None of These
74. If the sales of the BPL Washing machine market grow by 10% every year since 2015, what were the sales of BPL from Washing machine market in 1995 (in rupees in millions)?
- 2500 million
  - 2000 million
  - 243 million
  - 253 million
  - None of These
75. Find the market share of MI Washing machine in the Washing machine category in the year 2018?
- 500 crore
  - 400 crore
  - 700 crore
  - Data Inadequate
  - None of These



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**DIRECTIONS (Qs.76-80):** Following questions contain two statements as statement I and statement II. You have to determine which statement/s is/are necessary to answer the question and give answer as,

- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question  
 (b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question  
 (c) The data either in statement I alone or in statement II alone is sufficient to answer the question  
 (d) The data given in both statements I and II together are not sufficient to answer the question and  
 (e) The data given in both statements I and II together are necessary to answer the question.

76. What is the common ratio of the geometric progression?  
**Statement I:** Sum of the infinite terms of the progression is 2.

**Statement II:** Sum of the first  $m$  terms of the progression is  $2^m - 1/2^m$ .

77. What is the area of the triangle ABC?

**Statement I:** ABC is an isosceles right-angled triangle.

**Statement II:** The length of the largest side of the triangle ABC is 15cm.

78. How many people watch English movies assuming that all people watch atleast one movie.

**Statement I:** Number of people watching Hindi movies only, is 100.

**Statement II:** Number of people watching English or Hindi or both movies is 300.

79. The traffic management system at the junction of four roads is to be finalized. What is the maximum time a car would be waiting at the junction?

**Statement I:** There are 30 cars per minute in east-west and west-east directions.

**Statement II:** There is no right or left turns allowed on any of the roads.

80. Anil, Brajesh and Champa invested ₹ 52000 in a business in ratio 6:3:4 respectively. What is the profit % earned by them after a year?

**Statement I:** Champa got ₹ 8000 as his share of profit.

**Statement II:** The difference in profits earned by Anil and Brajesh is ₹ 6000.

**DIRECTIONS (Qs. 81 - 83):** There are 3 series, you have to find value of  $a$ ,  $b$  and  $c$  & then establish the relation among  $a$ ,  $b$  and  $c$ .

81. (i) 36, 39, 51, (a), 126, 201  
 (ii) 7, 13, 24, 40, 61, (b)  
 (iii) 5, 20, 53, 112, 205, (c)  
 (a)  $a > b < c$  (b)  $a < b < c$   
 (c)  $a = b = c$  (d)  $a > c = b$   
 (e) None of these
82. (i) 1, 16, 81, 256, 625, 1296, (a)  
 (ii) 1335, 444, 147, (b), 15, 4  
 (iii) 11, 13, 55, 195, (c), 6017  
 (a)  $a > b < c$  (b)  $a < b \leq c$   
 (c)  $a < b = c$  (d)  $a < b < c$   
 (e)  $a > b < c$

83. (i) 14, 17, 15, 18, 16, 19, (a)  
 (ii) 32, 33, 68, 207, (b)  
 (iii) 5, 11, 25, 51, (c), 155  
 (a)  $c \leq a \geq b$  (b)  $c > a > b$   
 (c)  $a < b > c$  (d)  $c > a \leq b$   
 (e) None of these

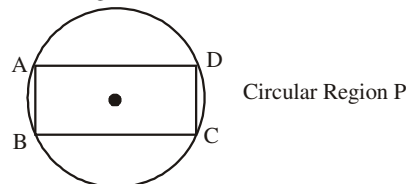
**DIRECTIONS (Qs. 84 - 85):** A number is bolded in the series I, II and III. Find the wrong series which does not satisfies the given number and choose the options accordingly.

84. (i) 9, 19, 59, 239, 1199, **7200**  
 (ii) 32, 16, 24, 60, **212**, 945  
 (iii) 72, 77, 87, 102, 122, **145**  
 (a) None (b) Only (i)  
 (c) Only (iii) (d) Only (ii)  
 (e) All the three
85. (i) 78, 156, 468, **2340**, 16380  
 (ii) 128, 65, 68, 141, 571, **4576**  
 (iii) 64, 33, 34, 52, 105, **264**  
 (a) Both (ii) and (iii) (b) Only (i)  
 (c) Only (iii) (d) Both (i) and (iii)  
 (e) All the three

**DIRECTIONS (Qs. 86-88):** There are three quantities provided in the questions. You have to find out the values of quantities and compare them according to the given questions.

**Give answer :**

- (a) Quantity – I > Quantity – II > Quantity – III  
 (b) Quantity – I = Quantity – II > Quantity – III  
 (c) Quantity – I < Quantity – II > Quantity – III  
 (d) Quantity – I < Quantity – II < Quantity – III  
 (e) Relationship can't be established
86. The weight of P, Q, R and S are in the ratio of 9 : 7 : 4 : 5.  
 Quantity – I : Find the weight of P if total weight of P, Q and R is 225 kg.  
 Quantity – II : Find the weight of Q if total weight of Q, R and S is 180 kg.  
 Quantity – III : Find the weight of S if total weight of Q, R and S is 180 kg.



87.

The area of the square inscribed in the circular region P is 98 sq. cm

Quantity – I : The area of the circular region P.

Quantity – II : The area of the circular region P outside the square.

Quantity – III : Perimeter of the circular region P.

88. Three friends Dipak, Sanjeet and Panas started a partnership business investing total money ₹ 22000 for 3 years. Dipak has invested ₹ 10000. Sanjeet's investment is the double of the Panas, investment. The average amount of profit earned per year is ₹ 2750.  
 Quantity – I : Amount received by the Panas as the share in the total profit at the end of 3 years.  
 Quantity – II : Amount received by the Sanjeet as the share in the total profit at the end of 18 months.  
 Quantity – III : Amount received by the Dipak as the share in the total profit at the end of one year.



**DIRECTIONS (Qs. 89 - 90):** Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give answer as,

89. **Quantity I:** Tomy and Jacky can do a job in 8 days and 12 days respectively. If they work on alternate days with Tomy beginning, in how many days will the work be finished?

**Quantity II:** A sum of money is sufficient to pay Uday's wages for 21 days and Muday's wages for 20 days. It is then sufficient to pay the wages of both for

- (a) Quantity I > Quantity II  
(b) Quantity I  $\geq$  Quantity II  
(c) Quantity I = Quantity II  
(d) Quantity I < Quantity II  
(e) Quantity I  $\leq$  Quantity II

90. **Quantity I:** Gopal sold two Air Purifier for ₹ 12900 each, neither losing nor gaining in the deal. If he sells one commodity at a gain of 29%, the other commodity is sold at a loss of

**Quantity II:** If the sales turnover of a company increases from ₹ 100 crore to ₹ 300 crore in 3 years, what is the compounded annual growth rate of sales (approximately) for the company?

- (a) Quantity I < Quantity II  
(b) Quantity I  $\geq$  Quantity II  
(c) Quantity I = Quantity II  
(d) Quantity I > Quantity II  
(e) Quantity I  $\leq$  Quantity II

91. A boat running upstream takes 5 hours 36 min to cover a certain distance, while it takes 3 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?

- (a) 32:15 (b) 15:32  
(c) 33:10 (d) 28:15  
(e) None of These

92. Doon Express can cross a man running in the direction of the train with the speed of 4 Km/h in 32.4 seconds. It can also cross a platform of length 740 m in 90 seconds. Time taken by the train to cross Moon Express of length \_\_\_\_\_m coming from the opposite direction with the speed of 36 Km/h is \_\_\_\_\_seconds.

Which of the following option/options satisfy the given condition?

- I. 540, 40.5  
II. 420, 36.3  
III. 440, 36  
(a) Only I and II (b) Only III  
(c) Only I and III (d) All I, II and III  
(e) None of these

93. A, B and C entered into a partnership with investment of ₹ 2P, ₹ 1.5P and ₹ \_\_\_\_\_ respectively. After one year, A made his investment 1.5 times. After one more year, B doubled his investment. At the end of three years, they earned a total profit of ₹ 11,5000. 10% of the profit goes to a charity. Share of C in the profit is ₹ \_\_\_\_\_. Which of the following option/options satisfy the given condition?

- (a) 3P, 45000 (b) 2P, 34500  
(c) P, 21000 (d) Only (a) and (b)  
(e) All of the above

94. A container contains 120 litres mixture of Alcohol and water which contains Alcohol and water in the ratio 7:3. \_\_\_\_\_ litres of the mixture is used in a party and

8 litre of Alcohol and 2 litres of water are added to the remaining mixture. Concentration of Alcohol in the final mixture is \_\_\_\_\_%.

Which of the following option/options satisfy the given condition?

- I. 40, 78  
II. 60, 84  
III. 30, 71  
(a) Only I and II  
(b) Only II and III  
(c) Only I and III  
(d) Only III  
(e) None of these

95. Pramod Das a shopkeeper marked the price of a shirt \_\_\_\_\_% above the cost price. He sold the shirt at a discount of 5% on the marked price. If selling price of the shirt is ₹ 912, percent profit earned by the shopkeeper is \_\_\_\_\_.

Which of the following option/options satisfy the given condition?

- (a) 20, 14  
(b) 25, 18.75  
(c) 50, 42.5  
(d) All of the above  
(e) None of the above

**DIRECTIONS (Qs. 96 - 100):** Study the following information carefully and answer the given questions.

Arka Pratap travels (A) km distance at the speed of x km/hr and reaches his office in 2 hours. If he increases his speed by 25%, he reached (B) hours less than the previous. Rudra Pratap travels twice the distance travelled by Arka Pratap and reached his office in 6 hours at the speed of 40 km/hr. Arka carries a bag which contains (x) green ball, 5 black ball and 10 pink balls. He takes one ball randomly and the probability of getting a pink ball is  $\frac{1}{2}$ .

Rudra also carries a bag which contains (x + 1) red caps, (x - 1) orange caps and 5 brown caps. He also takes one cap and the probability of getting a brown cap is (C).

Arka's mother bought a Bike with a discount of 20% on labeled price and he again marks up 25%. She offers at 15% discount and sold it to Arka's friend and gained (D) %, if the labeled price of the Bike is ₹ 40000.

96. Find the value of (A)

- (a) 240 (b) 180  
(c) 120 (d) 160  
(e) 150

97. Find the value of (B)

- (a) 24 mins (b) 20 mins  
(c) 12 mins (d) 36 mins  
(e) 40 mins

98. Find the value of (x)

- (a) 3 (b) 4  
(c) 2 (d) 5  
(e) 6

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99. Find the value of (C)

- |                   |                   |
|-------------------|-------------------|
| (a) $\frac{1}{2}$ | (b) $\frac{1}{3}$ |
| (c) $\frac{1}{5}$ | (d) $\frac{1}{4}$ |
| (e) $\frac{1}{6}$ |                   |

100. Find the value of (D)

- |           |           |
|-----------|-----------|
| (a) 8.75% | (b) 13.5% |
| (c) 5%    | (d) 12.5% |
| (e) 6.25% |           |

### English Language

**DIRECTIONS (Qs. 101-105):** Read the passage carefully and answer the questions given below it.

The main business of the banking industry is to give the interest on deposits & distribute the amount, so received, as loan and earn interest. After Nationalization of banks in 1969, personalise banking is converted into social banking, in which banks used their limited resources for economical and social development of the country. This chapter successfully ran for about two decades. After that, process of economic liberalisation started and a new era started in the Indian banking industry and economic progress became **stagnant**. In the present scenario, banks have to make themselves competitive to remain in the Industry and forget better profitability. Every bank wants to become leader in the Industry. Banks are now bound to computerize their branches in rural area also. Efforts are being made to provide better services by using computers. Retail Banking is also a part of this developing chain in the banking Industry.

Retail Banking means a type of banking, in which all type of categories of population get services/benefits from banking industry. Retail banking is a customer **oriented** service which increases clientele. In this type of banking, possibilities of losses are very less and comparatively banks can get better productivity and profitability. If we compare, we found that in the present....A....., banks are behaving like multinational companies, who are presenting their products with full facilities and comparative rates. Banks are, therefore, forced to be practical about their marketing policies. ATM is one of their retail banking product.

Before knowing about ATM, it is very essential that we should know well about information technology. Information and society are now related with each other up to good extent. One cannot think about development of society, without information technology. Even one can say that information is the origin point of the society. Information technology has made possible to join different types of people in the society that is why present society is also called Information society. If we think about the starting of computers, we find that initially computer was used only for mathematical calculations, but today it is a machine of unlimited capacity. Today with the help of computers human control over aeroplane, missiles etc. have become very easy. Computer has made possible the invention of technique like Internet. Today with the help of Internet, doors of development are opened. Facilities like e-business, e-banking, e-education are the facilities by which

a great change is being monitored in the society. We can also understand ATM in this regard.

101. What is the main business of the banking industry?

- (a) To give the interest on deposits & distribute the amount, so received, as loan and earn interest.  
 (b) Banks have to make themselves competitive to remain in the Industry and forget better profitability.  
 (c) Banks are providing information technology.  
 (d) Banks are now computerizing their branches in rural area also.  
 (e) None of these

102. What is retail banking?

- (a) In which all type of categories of population get services/benefits from banking industry.  
 (b) Retail banking is a customer oriented service which increases clientele.  
 (c) In this type of banking, possibilities of losses are very less and comparatively banks can get better productivity and profitability.  
 (d) ATM is one of their retail banking product.  
 (e) All the above

103. Which of the following is the similar to the word 'stagnant'?

- |                   |               |
|-------------------|---------------|
| (a) flowing       | (b) Customise |
| (c) Particular    | (d) Static    |
| (e) None of these |               |

104. Which of the following is the similar of the word 'oriented'?

- |                      |              |
|----------------------|--------------|
| (a) Steered          | (b) intended |
| (c) Regressed        | (d) Decayed  |
| (e) Both (a) and (b) |              |

105. Which of the following word is suitable to replace the blank 'A'?

- |                  |              |
|------------------|--------------|
| (a) period       | (b) Scenario |
| (c) Scene        | (d) Years    |
| (e) All of these |              |

**DIRECTIONS (Qs. 106-110):** Read the passage carefully and answer the questions given below it.

No distinction was drawn between economic growth and development in the beginning of the evolution of economics of development. However, since the seventies it has been thought necessary to distinguish between economic growth and economic development. There are two views even about the concept of economic development. The traditional view has been to **interpret** it in terms of planned changes in the structure of national product and the occupational pattern of labour force and also the institutional and technological changes that bring about such changes or accompany such changes.

It may be noted that Kuznets in his study of Modern Economic Growth interpreted the process of modern economic growth which involves these structural changes. In this view during the process of economic growth share of agriculture in both national product and employment of labour force declines and that of industries and services increases. Various strategies of development which were suggested until seventies generally focused on rapid industrialization so that structural transformation could be achieved.

For this purpose appropriate institutional and technological changes were recommended to bring about such structural changes. Thus C.P. Kindle Berger writes, Economic growth means more output and economic development .....**A**.....both more output and changes in the technical and institutional arrangements by which it is produced.

Thus, according to traditional view, economic development implies growth plus structural change. Structural change refers to changes in technological and institutional factors which cause shift of labour from agriculture to modern manufacturing and services sectors and also generate self-sustaining growth of output. An aspect of structural change which is of special mention is that during the process of economic development there occurs a shift of working population from low productivity employment in agriculture to the modern industrial and services sectors having higher levels of productivity of labour.

That is, during the process of economic development percentage share of working population in agriculture sharply falls whereas percentage shares of working population employed in modern industrial and services sectors **substantially** increase. Along with this change in sectoral distribution of labour force there occurs a change in sectoral composition of national in-come in which percentage contribution of agriculture to national income and declines and percentage contributions to national income of industrial and services sectors increase. This occurs due to the change in pattern of consumption of the people as economy grows and people's income increases as well as due to the changes in levels of productivity in the different sectors of the economy.

106. Study the following statements

- (1) Since the seventies it has been thought necessary to distinguish between economic growth and economic development.
  - (2) In this view during the process of economic growth share of agriculture in both national product and employment of labour force declines and that of industries and services increases.
- (a) 1 is true, 2 is false      (b) 1 is false, 2 is true  
(c) Both are true      (d) Both are false  
(e) All of these

107. What happened during the process of economic growth share of employment of labour force of industries and services and agriculture?

- (a) share of agriculture in both national product and employment of labour force declines
- (b) The share of employment of labour to industries and services increases.
- (c) The share of employment of labour to industries and services decreases.
- (d) Both (a) and (b) are true
- (e) Both (a) and (b) are false

108. Which of the following is/are the similar to the word 'Substantially'?

- (a) Considerably      (b) significantly
- (c) slightly      (d) both (a) and (b)
- (e) All of these

109. Which of the following is the opposite of the word 'interpret'?

- (a) misunderstand      (b) fathom
- (c) discern      (d) grasp
- (e) all the above

110. Which of the following word can replace the blank 'a'?

- (a) understand      (b) find
- (c) implies      (d) regulates
- (e) All of these

**DIRECTIONS (Qs. 111-115):** Read the passage carefully and answer the questions given below it.

Financial management refers to the efficient and effective management of money (funds). Financial Management is about preparing, directing and managing the financial activities of a company such as buying, selling and using money to its best results to maximize wealth or produce best value for money. It is basically applying general management concepts to the cash of the company. Financial Management can also be defined as – The management of the finances of a business / organization in order to achieve financial objectives.

According to Dr. S. N. Maheshwari "Financial management is concerned with raising financial resources and their effective utilization towards achieving the organizational goals."

According to Richard A. Brealey "Financial management is the process of putting the available funds to the best advantage from the long term point of view of business objectives"

It is **crucial** for both public and private sector organizations.

Financial management is one of the important aspects in finance. Nobody can ever think to start a business or a company without financial knowledge and management strategies.

The scope of financial management has increased greatly now. It is important to carry out the financial analysis for a company and this analysis helps in decision making process. Investment decision of the company comes under the scope of financial management.

The investment decision involves the evaluation of risk, measurement of cost of capital and estimation of expected benefits from a project. Capital budgeting and liquidity are the two major components of investment decision. Capital budgeting is concerned with the allocation of capital and commitment of funds in permanent assets which would yield earnings in future.

Capital budgeting also involves decisions with respect to replacement and **renovation** of old assets. The finance manager must maintain an appropriate balance between fixed and current assets in order to maximize profitability and to maintain desired liquidity in the firm.

Capital budgeting is a very important decision as it affects the long-term success. At the same time it is a very difficult decision because it involves the estimation of costs and benefits which are uncertain and unknown.

While the investment decision involves decision with respect to composition or mix of assets, financing decision is concerned with the financing mix or financial structure of the firm and it also comes under the range of financial management. The raising of funds requires decisions regarding the methods and sources of finance, relative proportion and choice between alternative sources, time of floatation of securities, etc.

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The finance manager must develop the best finance mix or optimum capital structure for the enterprise so as to maximize the long- term market price of the company's shares. A proper balance between debt and equity is required so that the return to equity shareholders is high and their risk is low. Use of debt or financial leverage affects both the return and risk to the equity shareholders. The market value per share is maximized when risk and return are properly matched.

In order to achieve the wealth maximization objective, an appropriate dividend policy which also comes under the span of financial management, must be developed. One aspect of dividend policy is to decide whether to distribute all the profits in the form of dividends or to distribute a part of the profits and retain the balance.

Working capital decision also comes under the extent of financial management, is related to the investment in current assets and current liabilities. Current assets include cash, receivables, inventory, short-term securities, etc. Current liabilities consist of creditors, bills payable, **outstanding** expenses, bank overdraft, etc. Current assets are those assets which are convertible into cash within a year. Similarly, current liabilities are those liabilities, which are likely to mature for payment within an accounting year. Financial planning is the key element of the financial management. Financial Planning is process of framing objectives, policies, procedures, programmes and budgets regarding the financial activities of a concern.

The financial planning estimates the **precise** requirement of funds which means to avoid wastage and over-capitalization situation. Funds can be arranged from various sources and are used for long term, medium term and short term requirement. Financial planning is necessary for tapping appropriate sources at appropriate time as long term funds are generally contributed by shareholders and debenture holders, medium term by financial institutions and short term by commercial banks.

Financial planning suggests how the funds are to be allocated for various purposes by comparing various investment proposals. It helps in ensuring a reasonable balance between outflow and inflow of funds so that stability is maintained. It also helps in reducing the uncertainties which can be a hindrance to growth of the company and this helps in ensuring stability and profitability in concern.

111. According to the passage, which of the followings cannot be considered as an advantage of financial planning?
- Helps in estimating the requirement of funds
  - Helps in proper allocation of funds
  - Helps in maintaining the balance between inflow and out flow of fund
  - Helps in growth and expansion programmes
  - Helps in reducing the uncertainties
112. According to the passage, why should the finance manager develop the optimum capital structure?
- For maintaining the liquidity in the firm
  - For maximizing the value of the firm
  - For maximizing the return to equity shareholders
  - For reducing the cost of capital
  - For maximizing the market price of share

113. According to the passage, who contributes the funds for the medium term financial requirement of an organisation?
- Debenture holders
  - Financial institutions
  - Co-operative societies
  - Commercial bank
  - Shareholders
114. According to the passage, which of the following decisions does not come under the scope of financial management?
- Working capital decision
  - Dividend decision
  - Acquisition decision
  - Investment decision
  - Financing decision
115. Which of the following statements is true in the context of the passage?
- Working capital decision is related to the income and expenditure of business.
  - Current assets are those assets which are convertible into cash within a year.
  - Capital budgeting is a very important decision as it affects the short-term success.
  - None of the above
  - All are true

**DIRECTIONS (Qs. 116-120):** Given sentences are not in their exact position. Rearrange them to make a coherent paragraph and then answer the questions given below.

- This type of ancient Hindu school in India was residential in nature with the Shishyas or students and the Guru or teacher living in proximity within the same house.
  - In addition to that ancient Indian education achieved a noticeable position in the early Vedic period beginning in the 1200 B.C.
  - The students resided together irrespective of their social standing.
  - Education in Ancient India originated with the Gurukul system.
  - However, several temples and community centres regularly took the role of schools.
116. Which of the following should be the **FOURTH** sentence after the rearrangement?
- A
  - B
  - C
  - D
  - E
117. Which of the following should be the **SECOND** sentence after the rearrangement?
- A
  - B
  - C
  - D
  - E
118. Which of the following should be the **THIRD** sentence after the rearrangement?
- A
  - B
  - C
  - D
  - E
119. Which of the following should be the **FIRST** sentence after the rearrangement?
- A
  - B
  - C
  - D
  - E



120. Which of the following should be the **FIFTH** sentence after the rearrangement?

- (a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Qs. 121-125):** In each question below, a paragraph is given, containing 3 blanks. Four options are given with three words. Choose the correct combination of words from the options, which can fit in the blanks correctly. If none of the four options fit correct then choose (e) as the answer.

121. The apex court has described corruption as a serious \_\_\_\_\_ and one impinging on the economy. In 2013, the protection given to sitting legislators from immediate \_\_\_\_\_ was removed. Further, common sense would suggest that disqualification should be more strictly applied to those \_\_\_\_\_ for corruption.

- (a) Malady, disqualification, repulsed  
(b) infatuated, enamoured, repulsed  
(c) Malady, disqualification, convicted  
(d) infatuated, enamoured, convicted  
(e) None of these

122. Ascetic and \_\_\_\_\_, Gandhi changed the face of civil disobedience around the world. Martin Luther King, Jr. drew on his tactics during the Civil Rights Movement, and the Dalai Lama was inspired \_\_\_\_\_ his teachings, which are still \_\_\_\_\_ by those who seek to inspire change without inciting violence.

- (a) Unflinching, by, akin  
(b) Cognizant, from, akin  
(c) Cognizant, from, heralded  
(d) Unflinching, by, heralded  
(e) None of these

123. Those were \_\_\_\_\_ days as the whole nation, and Delhi in particular, was engulfed in communal riots \_\_\_\_\_ from the Partition. Today, however, the serenity of the place and its surroundings \_\_\_\_\_ the anger, the hurt, and the guilt experienced by all those who came to bid the Mahatma adieu at this place on January 30, 1948.

- (a) Tumultuous, emanating, betrays  
(b) cluttered, kempt, shroud  
(c) Cluttered, emanating, betrays  
(d) Tumultuous, kempt, shroud  
(e) None of these

124. Attitude determines the lifestyle of a person and it develops when \_\_\_\_\_ is followed by projection. Positive and negative attitudes are \_\_\_\_\_ by an individual over a period of time and according to their development, human beings fall into three categories: there are those who imagine and project difficulties \_\_\_\_\_ any undertaking even before they start work and end up doing nothing. They are like the car that will not start unless given a push.

- (a) Vaunt, brandish, to  
(b) Vaunt, acquired, in  
(c) Perception, brandish, to  
(d) Perception, acquired, in  
(e) None of these

125. the most important step towards the haven of security is to \_\_\_\_\_ in the senses, which, if not kept in control, carry off even the wisest to the \_\_\_\_\_. Physical starving of the senses works but as a temporary purpose; it is only when the intellect realises its moorings in the Highest and prevents the mind from \_\_\_\_\_ that one can feel secure.

- (a) Rein, abyss, briskly  
(b) Rein, abyss, wandering  
(c) Palliative, recur, briskly  
(d) Palliative, recur, wandering  
(e) None of these

**DIRECTIONS (Qs. 126-130):** In the following question, out of the four alternatives, choose the one which best expresses the meaning of the highlighted word given in the sentence.

126. A few of the modern Jewish houses have been **embellished** at an enormous cost, but they are wanting in taste.

- (a) Simplified (b) Decorated  
(c) Dilapidated (d) Tarnished  
(e) None of these

127. While the Deans were pleased that Martha had confided in them about her **gruesome** discovery, her pending exit remained an ever-present pall that hung over the remainder of the evening like a chilly fog.

- (a) Sullen (b) Exhausting  
(c) Hideous (d) Insulting  
(e) None of these

128. The **vivacious** lilac still grows, unfolding its sweet-scented flowers each spring.

- (a) Crestfallen (b) Languid  
(c) Vibrant (d) Effete  
(e) None of these

129. His talent is quite **prodigious** and we are looking forward seeing him at this level where I am sure he will be very effective.

- (a) Paltry (b) Phenomenal  
(c) Mediocre (d) Nugatory  
(e) None of these

130. The **articulate** speaker intrigued the audience with his message.

- (a) Impotent (b) Frigid  
(c) Eloquent (d) Hesitant  
(e) None of these

**DIRECTIONS (Qs. 131-133):** In the following questions, choose the word opposite in meaning of the highlighted word given in the sentence.

131. The filibuster began to **irk** everyone in the senate.

- (a) Vex (b) Pique  
(c) Delight (d) Exasperate  
(e) None of these

132. Alas for the **vanity** of man's judgement and man's prescience!

- (a) Humility (b) Haughtiness  
(c) Self-admiration (d) Ostentation  
(e) None of these

133. Alone in the middle of the ocean, the survivor could think of nothing that would make the **insipid** days seem shorter.

- (a) Mundane (b) Exhilarating  
(c) Vapid (d) Prosaic  
(e) None of these



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**DIRECTIONS (Qs. 134-135):** In the sentences given below, the parts marked a), b), c) and d) may contain errors. Choose the part which is error-free. If the sentence is error free, choose e) no error.

134. The CBI have sought his custodial interrogation and (a)/ claimed that he responded either evasive (b)/ or arrogantly during an apex court-ordered questioning(c)/ in Assam recently. It said his arrest was being required. (d)  
 (a) a and b (b) Only b  
 (c) Only c (d) a and d  
 (e) No error
135. Manohar Sharma, Director of the journalism fellowship (a)/ program at the Reuters Institute for the Study of Journalism, University of Oxford, explains (b)/ that Sri Lanka has a "long history of censoring the press, by killing journalists, (c)/ blocking websites and using draconian laws to fine and imprison reporters". (d)  
 (a) a and b (b) Only b  
 (c) Only c (d) a and d  
 (e) No error

**DIRECTIONS (Qs. 136-140):** In the given below questions a sentence is given with an idiom/phrase in bold words and four options are given below it. Choose the right option which is showing the meaning of the given words. If out of four none is correct the answer choose (e) as the right answer.

136. John keeps **drawing on fancy** about the banking job in government sector.  
 (a) Use imagination  
 (b) Do the things beautifully  
 (c) Make clear conclusion about anything or anyone  
 (d) Likes government jobs  
 (e) None of these
137. After reading the story time and again we are finally **reading between the lines**.  
 (a) Reading to entertain others  
 (b) Understanding the hidden meaning  
 (c) Reading only to show someone else about your style of reading.  
 (d) Reading to clear the exam  
 (e) None of these
138. Failing in exam again and again even after putting all the hard work is **bad blood**.  
 (a) Consume time and affects the health  
 (b) The aspirants become unhealthy  
 (c) The aspirants do not take interest  
 (d) Create angry feeling  
 (e) None of these
139. Alice is very good at quant, but when she was watching a teacher's video she was **taking it with a grain of salt**.  
 (a) She was enjoying the video  
 (b) To listen to something with considerable doubt  
 (c) She was listening with full attention  
 (d) She was not listening with full attention  
 (e) None of these
140. The boy broke the window and **took** to his heels.  
 (a) The boy ran into the window.  
 (b) The boy broke the window and ran away.  
 (c) The boy broke the window and fell on his heels.  
 (d) The boy broke the window with his heels.  
 (e) None of these

### General/Financial Awareness

141. 19th August is celebrated as-  
 (a) International Holocaust Day  
 (b) World AIDS Day  
 (c) World Photography Day  
 (e) None of these
142. The First Indian State to issue Masala Bond-  
 (a) Maharashtra (b) Kerala  
 (c) Madhya Pradesh (d) Goa  
 (e) Meghalaya
143. Which state is set to host the 21st Commonwealth Table Tennis Championship at the Jawaharlal Indoor Stadium?  
 (a) Pune, Maharashtra (b) Guwahati, Assam  
 (c) Jaipur, Rajasthan (d) Cuttack, Odisha  
 (e) Indore, Madhya Pradesh
144. Commercial paper is an unsecured promissory note with a fixed maturity of not more than-  
 (a) 300 days (b) 365 days  
 (c) 235 days (d) 290 days  
 (e) 270 days
145. Male is the capital city of-  
 (a) Maldives (b) Singapore  
 (c) Malaysia (d) Tanzania  
 (e) Bhutan
146. Who is the present Minister of Chemicals and Fertilizers in the Government of India?  
 (a) Shri Ramvilas Paswan  
 (b) Shri Ravi Shankar Prasad  
 (c) Shri Thaawar Chand Gehlot  
 (d) Smt. Smriti Zubin Irani  
 (e) D V Sadananda Gowda
147. Who wins the silver medal in World Youth Cup 2019 from India?  
 (a) Arinjeeta Dey  
 (b) Aronyak Ghosh  
 (c) Sreeshwan Maralakshikari  
 (d) Rakshitta Ravi  
 (e) None of these
148. Damnganga-Pinjal river linking project will fulfill water needs till 2060 in-?  
 (a) Ujjain, Madhya Pradesh  
 (b) Mumbai, Maharashtra  
 (c) Bengaluru, Karnataka  
 (d) Kumool, Andhra Pradesh  
 (e) None of these
149. The Shanghai Cooperation Organisation (SCO 2019) 19th summit was held in-  
 (a) Nur Sultan, Kazakhstan  
 (b) Dushanbe, Tajikistan  
 (c) Seoul, South Korea  
 (d) Bishkek, Kyrgyzstan  
 (e) None of these
150. War Over Words: Censorship in India, 1930-1960 Book has been authored by-  
 (a) Devika Sethi (b) Deepak Nayyar  
 (c) Meira Kumar (d) Kapil Isapuari  
 (e) Poonam Surie

151. Which state government would set up a first-of-its-kind elephant rehabilitation center here at an outlay of Rs 105 crore?  
 (a) Sikkim (b) Kerala  
 (c) West Bengal (d) Odisha  
 (e) Arunachal Pradesh
152. Amrabad Tiger Reserve located in-  
 (a) Kerala (b) Maharashtra  
 (c) Chhattisgarh (d) Telangana  
 (e) Tamil Nadu
153. According to some newspaper reports, one-third of the total wilful defaulter is which bank?  
 (a) Punjab National Bank  
 (b) State Bank of India  
 (c) Karnataka Bank  
 (d) Bank of Baroda  
 (e) Central Bank of India
154. RBI has formed a committee to review regulatory guidelines and supervisory framework applicable to core investment companies (CICs). This committee is headed by-  
 (a) Bimal Jalan (b) Smt. Usha Thorat  
 (c) Tapan Ray (d) Shri T. N. Manoharan  
 (e) None of these
155. Kaziranga National Park is a protected area in-  
 (a) Sikkim (b) Assam  
 (c) Arunachal Pradesh (d) Uttarakhand  
 (e) None of these
156. Who has lead Indian delegation for G-20 meeting on trade in Japan?  
 (a) Shri Nitin Jairam Gadkari  
 (b) Shri Raj Nath Singh  
 (c) Piyush Goyal  
 (d) Smt. Harsimrat Kaur Badal  
 (e) None of these
157. The surcharge was levied on individuals with a total income more than ` 1 crore at the rate of-  
 (a) 10% (b) 15%  
 (c) 20% (d) 25%  
 (e) 30%
158. LIC has how much crore in unclaimed money?  
 (a) ` 96,000 crores (b) ` 10,000 crores  
 (c) ` 10,500 crores (d) ` 11,200 crores  
 (e) ` 11,500 crores
159. Where is the headquarters of National Institute of Agricultural Economics and Policy Research?  
 (a) Mumbai (b) New Delhi  
 (c) Indore (d) Jaipur  
 (e) Kochi
160. Which Indian city made its entry into the UNESCO World Heritage Site list recently?  
 (a) Goa (b) Jaipur  
 (c) Ranchi (d) Raipur  
 (e) None of these
161. Deposits in bank accounts opened under Jan Dhan scheme have crossed the Rs \_\_\_\_\_ lakh crore mark.  
 (a) 1 lack crore (b) 2 lack crore  
 (c) 3 lack crore (d) 4 lack crore  
 (e) 5 lack crore
162. Who is the present speaker of Lok Sabha?  
 (a) Om Birla  
 (b) Pralhad Joshi  
 (c) Mahendra Nath Pandey  
 (d) Giriraj Singh  
 (e) Kiren Rijiju
163. RBI has initiated steps to set up a wide-based DPCR to capture details of all borrowers. DPCR stands for-  
 (a) Digital Public Cash Rupee  
 (b) Digital Plan of Cash Registry  
 (c) Digital Public Credit Registry  
 (d) Detailed Public Credit Rate  
 (e) None of these
164. The National Institute of Food and Agriculture (NIFA) based in-  
 (a) USA (b) Chine  
 (c) UAE (d) UK  
 (e) None of these
165. Kawal Tiger Reserve was located at-  
 (a) Karnataka (b) Assam  
 (c) Gujarat (d) Madhya Pradesh  
 (e) Telangana
166. Balphakram National Park was located at-  
 (a) Sikkim (b) Assam  
 (c) Meghalaya (d) Mizoram  
 (e) None of these
167. Hanoi is the capital of-  
 (a) Brunei (b) Cambodia  
 (c) Malaysia (d) Vietnam  
 (e) Laos
168. What is the first instalment amount for PM Matru Vandana Yojana?  
 (a) ` 500 (b) ` 1000  
 (c) ` 1200 (d) ` 1500  
 (e) ` 2000
169. Who is the AIFF women's Player of 2019?  
 (a) Maymol Rocky  
 (b) Ashalata Devi  
 (c) Ngangom Bala Devi  
 (d) Sangita Basfore  
 (e) None of these
170. Soyuz 2.1a Launched by which agency?  
 (a) NASA (b) Roscosmos  
 (c) JAXA (d) UK Space Agency  
 (e) None of these
171. In which stadium, Cricket World Cup final match was held?  
 (a) Lord's, London.  
 (b) Headingley, Leeds.  
 (c) Ageas Bowl, Southampton.  
 (d) Edgbaston, Birmingham.  
 (e) The Oval, London.
172. Who won men's single Wimbledon 2019?  
 (a) Roger Federer (b) Rafael Nadal  
 (c) Novak Djokovic (d) Andy Murray  
 (e) None of these

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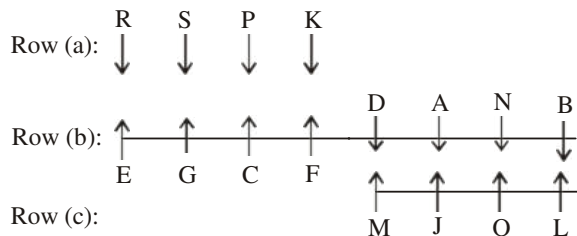
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173. Which sport is associated with Ajay Singh?  
 (a) Cricket (b) Tennis  
 (c) Boxing (d) Hockey  
 (e) Football
174. What is the constituency of Arjun Munda?  
 (a) Garhwa (b) Latehar  
 (c) Giridih (d) Khunti  
 (e) Dhanbad
175. What is the Headquarters of National Cricket Academy?  
 (a) Bengaluru (b) Chennai  
 (c) Mumbai (d) New Delhi  
 (e) Kolkata
176. T.N. Manoharan Committee was launched by?  
 (a) RBI  
 (b) Ministry of Finance  
 (c) SIDBI  
 (d) SEBI  
 (e) None of these
177. Civil Aviation Training Center (CATC) was located at?  
 (a) Iran (b) USA  
 (c) France (d) UK  
 (e) None of these
178. Anshula Kant is the MD and CFO of?  
 (a) State Bank of India  
 (b) Asian Development Bank  
 (c) International Finance Corporation  
 (d) World Bank  
 (e) None of these
179. India has signed a deal of Rs.200 Crore to acquire Strum Ataka with which of the following countries?  
 (a) Russia (b) Brazil  
 (c) Canada (d) South Africa  
 (e) Oman
180. Which of the following has launched STRIDE scheme recently, aimed at strengthening research culture and innovation in universities and colleges of the country?  
 (a) National Human Rights Commission  
 (b) National Commission for Women  
 (c) University Grants Commission  
 (d) Competition Commission of India  
 (e) None of these
181. Dutee Chand becomes the first Indian to win a gold medal at the Summer Universiade which was held at-  
 (a) Ireland (b) Italy  
 (c) Brazil (d) Austria  
 (e) None of these
182. Pradhan Mantri Karam Yogi Maandhan (PM-KYM) Scheme All PM Karam Yogi Maan Dhan Scheme beneficiaries must have annual turnover less than\_.  
 (a) ` 1 crore (b) ` 1.2 crore  
 (c) ` 1.5 crore (d) ` 1.8 crore  
 (e) ` 2 crore
183. Every woman in Self-Help Group (SHG) was eligible for a loan up to\_\_\_\_\_under the MUDRA Scheme.  
 (a) ` 0.5 lakh (b) ` 1 lakh  
 (c) ` 1.5 lakh (d) ` 2 lakh  
 (e) ` 2.5 lakh
184. BRICS Summit 2019 was held at –  
 (a) Canada (b) Brazil  
 (c) Chile (d) Argentina  
 (e) None of these
185. The Solar Charkha Mission comes under which ministry?  
 (a) Ministry of Micro Small & Medium Enterprises  
 (b) Ministry of Home Affairs  
 (c) Ministry of Consumer Affairs, Food and Public Distribution  
 (d) Ministry of Electronics and Information Technology  
 (e) None of these
186. Name the first foreign bank to set up unit in Gujarat International Finance Tec-City (GIFT).  
 (a) Citi Bank (b) DBS Bank  
 (c) HSBC Bank (d) Barclays Bank  
 (e) Standard Chartered Bank
187. Which of the following bank has reportedly drawn up plans for a radical restructuring that will involve the creation of a “bad bank”?  
 (a) Industrial and Commercial Bank of China  
 (b) Deutsche Bank  
 (c) HSBC Bank  
 (d) Barclays Bank  
 (e) None of these
188. The 2023 ICC Cricket World Cup will be held at-  
 (a) Australia (b) India  
 (c) England (d) South Africa  
 (e) None of these
189. Name the organization works to eradicate poverty and reduce inequalities through the sustainable development of nations.  
 (a) UNDP (b) UNESCO  
 (c) UNCTAD (d) UNIDO  
 (e) None of these
190. Budget 2019 has proposed to levy tax deduction at source (TDS) of 2 per cent on the cash withdrawal of more than \_\_\_\_\_ from a bank account.  
 (a) ` 0.5 crore (b) ` 1 crore  
 (c) ` 1.5 crore (d) ` 1.8 crore  
 (e) ` 2 crore

| ANSWER KEY |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1          | (c) | 21 | (d) | 41 | (c) | 61 | (c) | 81  | (b) | 101 | (a) | 121 | (c) | 141 | (c) | 161 | (a) | 181 | (b) |
| 2          | (b) | 22 | (d) | 42 | (d) | 62 | (a) | 82  | (a) | 102 | (e) | 122 | (d) | 142 | (b) | 162 | (a) | 182 | (c) |
| 3          | (c) | 23 | (c) | 43 | (c) | 63 | (d) | 83  | (c) | 103 | (d) | 123 | (a) | 143 | (d) | 163 | (c) | 183 | (b) |
| 4          | (d) | 24 | (a) | 44 | (a) | 64 | (b) | 84  | (e) | 104 | (e) | 124 | (d) | 144 | (e) | 164 | (a) | 184 | (b) |
| 5          | (c) | 25 | (b) | 45 | (a) | 65 | (b) | 85  | (a) | 105 | (b) | 125 | (b) | 145 | (a) | 165 | (e) | 185 | (a) |
| 6          | (a) | 26 | (a) | 46 | (b) | 66 | (b) | 86  | (a) | 106 | (c) | 126 | (b) | 146 | (e) | 166 | (c) | 186 | (e) |
| 7          | (d) | 27 | (c) | 47 | (d) | 67 | (a) | 87  | (a) | 107 | (d) | 127 | (c) | 147 | (a) | 167 | (d) | 187 | (b) |
| 8          | (b) | 28 | (e) | 48 | (e) | 68 | (a) | 88  | (b) | 108 | (d) | 128 | (c) | 148 | (b) | 168 | (b) | 188 | (b) |
| 9          | (a) | 29 | (b) | 49 | (b) | 69 | (a) | 89  | (d) | 109 | (a) | 129 | (b) | 149 | (d) | 169 | (b) | 189 | (a) |
| 10         | (d) | 30 | (b) | 50 | (d) | 70 | (a) | 90  | (a) | 110 | (c) | 130 | (c) | 150 | (a) | 170 | (b) | 190 | (b) |
| 11         | (e) | 31 | (c) | 51 | (a) | 71 | (d) | 91  | (d) | 111 | (d) | 131 | (c) | 151 | (b) | 171 | (a) |     |     |
| 12         | (b) | 32 | (d) | 52 | (b) | 72 | (e) | 92  | (c) | 112 | (e) | 132 | (a) | 152 | (d) | 172 | (c) |     |     |
| 13         | (c) | 33 | (e) | 53 | (c) | 73 | (c) | 93  | (d) | 113 | (b) | 133 | (b) | 153 | (b) | 173 | (c) |     |     |
| 14         | (c) | 34 | (b) | 54 | (b) | 74 | (a) | 94  | (d) | 114 | (c) | 134 | (c) | 154 | (c) | 174 | (d) |     |     |
| 15         | (e) | 35 | (a) | 55 | (d) | 75 | (d) | 95  | (d) | 115 | (b) | 135 | (e) | 155 | (b) | 175 | (a) |     |     |
| 16         | (b) | 36 | (b) | 56 | (b) | 76 | (a) | 96  | (c) | 116 | (e) | 136 | (a) | 156 | (c) | 176 | (a) |     |     |
| 17         | (b) | 37 | (b) | 57 | (a) | 77 | (e) | 97  | (b) | 117 | (a) | 137 | (b) | 157 | (a) | 177 | (a) |     |     |
| 18         | (a) | 38 | (d) | 58 | (c) | 78 | (d) | 98  | (d) | 118 | (c) | 138 | (d) | 158 | (c) | 178 | (d) |     |     |
| 19         | (a) | 39 | (a) | 59 | (b) | 79 | (d) | 99  | (b) | 119 | (d) | 139 | (b) | 159 | (b) | 179 | (a) |     |     |
| 20         | (a) | 40 | (c) | 60 | (d) | 80 | (c) | 100 | (e) | 120 | (b) | 140 | (b) | 160 | (b) | 180 | (c) |     |     |

## ANSWERS & EXPLANATIONS

Sol. (1-5)



1. (c) 2. (b) 3. (c) 4. (d) 5. (c)

Sol. (6-10): **Logic:** As a first step let's first understand the logic behind the Output. Words are arranged from right end and numbers are arranged from left end. In each step one word and one number are arranged.

**Word** – Words are arranged in ascending order from left to right according to the English alphabetical order. In the first step the word starting with the letter having higher place value in the English alphabet is arranged first on the right end and also the letters of the word are arranged in increasing alphabetical order within the word.

**Number**- Numbers are arranged in ascending order from left to right. In the first step the highest number is arranged first and then in the second step 2<sup>nd</sup> highest numbered gets arranged and so on till the last step and also after

rearranging the numbers add 5 in the even number and subtract 5 in the odd numbers.

**Input** - IKGE42 71 RTBC 86 PKCT 25 KDSM 59 VATW

**Step I:** 91 IKGE 42 71 RTBC PKCT 25 KDSM 59 ATVW

**Step II:** 66 91 IKGE 42 PKCT 25 KDSM 59 ATVW BCRT

**Step III:** 54 66 91 IKGE 42 25 KDSMATVW BCRT CKPT

**Step IV:** 47 54 66 91 IKGE 25 ATVW BCRT CKPT DKMS

**Step V:** 20 47 54 66 91 ATVW BCRT CKPT DKMS EGIK

**Step VI:** is the last step of the rearrangement.

6. (a) 7. (d) 8. (b) 9. (a) 10. (d)

11. (e) RELATIONSHIP

**Step I:** QFKBSJPMRGJO

Vowel → following letters

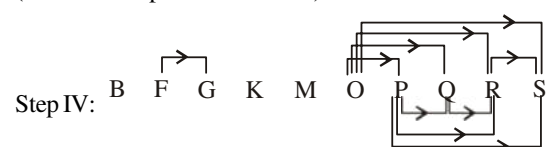
Consonent → Preceding letters

Step II: BFG JJ KMOPQRS

(Alphabetical order arrangement)

Step III: BFGKMOPQRS

(Eliminate repeated letters JJ)

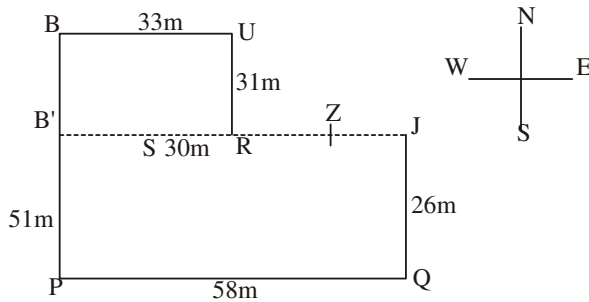


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12. (b) From CELEBRATE  
 Step I: 1<sup>st</sup>, 3<sup>rd</sup> and 5<sup>th</sup> letters are C, L, B  
 Now,  
 From ALIKE  
 Step II: 1<sup>st</sup> and 4<sup>th</sup> letters are A, K  
 New word is BLACK  
 Hence, A will be the 3<sup>rd</sup> from the right.

Sol. (13-15)



13. (c) U is in north-west with respect to Q.  
 14. (c) As, BU = 33m

So, B'R = 33m  
 we have PQ = 58m

So, B'J = 58m

$$\therefore RJ = B'J - B'R \\ = 58 - 33$$

$$RJ = 25m$$

As Z is mid point of RJ

$$\text{So, } RZ = \frac{25}{2} = 12.5 \text{ m}$$

So, distance between S and Z is

$$\Rightarrow SR + RZ$$

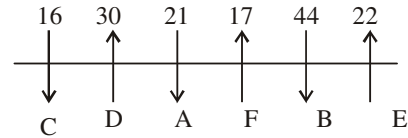
$$\Rightarrow 30m + 12.5m$$

$$\Rightarrow 42.5m$$

15. (e) From the previous question we get  
 RJ = 25m  
 Hence, Distance between S and J is  
 $\Rightarrow SR + RJ$   
 $\Rightarrow 30m + 25m$   
 $= 55m$
16. (b) I. U % X (False)  
 II. X @ Z (True)
17. (b) I. A x D (False)  
 II. D @ B (True)
18. (a) I. O @ M (True)  
 II. S x N (False)
19. (a) I. B @ G (True)  
 II. G @ B (False)

20. (a) I. P @ M (True)  
 II. J x K (False)

Sol. (21-25)

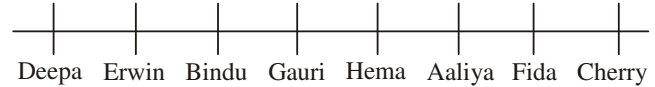


21. (d) 22. (d) 23. (c) 24. (a) 25. (b)

Sol. (26-30)

In this new pattern coding decoding each letter, except vowel, is assigned a number from 1-6 So, B-1, C-2, D-3, F-4, G-5, H-6, J-1, K-2, L-3, M-4, N-5, P-6, Q-1, R-2, S-3, T-4, V-5, W-6, X-1, Y-2, Z-3. Also, each vowel is assigned different digits starting from the digit code of Z. So, for vowels the digit codes are - A-3, E-4, I-5, O-6, U-7.

26. (a) 27. (c) 28. (e) 29. (b) 30. (b)  
 31. (c)



32. (d) Only (I) can be assumed from the given statement as it is mentioned in the given statement that rooftop solar power technology is showing growth.
33. (e) Both I and II follows as salary is an important factor for encouraging students to opt teaching as a career option rather than job and changing the eligibility criterion to graduation for being a teacher as generally the students choose their career option after graduation.

Sol. (34-38)

6yrs      2yrs      4yrs      1yrs      5yrs      3yrs

CSM > LP > MC > GM > CFO > FO

10 lakh   18 lakh   8 lakh   11 lakh   9 lakh   13 lakh

34. (b) 35. (a) 36. (b) 37. (b) 38. (d)
39. (a) For I: Yes, it can be inferred from the given statements as it is clearly mentioned punctuality and sincerity are one of the key points which will surely reviewed.  
 For II: No, it is clear from the given statements that there will be increment but percentage cannot be inferred.  
 For III: No, as it is mentioned by manager that hard work and dedication towards work will be applauded. But, Is there some employee who have done their work with complete determination and enthusiasm, it cannot be inferred. We can assume it but it cannot be inferred from it.
40. (c) For I: Yes, it weakens the statement of manager as it is said by manager that increment will be based on performance i.e. hard work and determination. But 15% for all those employees who have completed 1 year undermines the statement by manager.



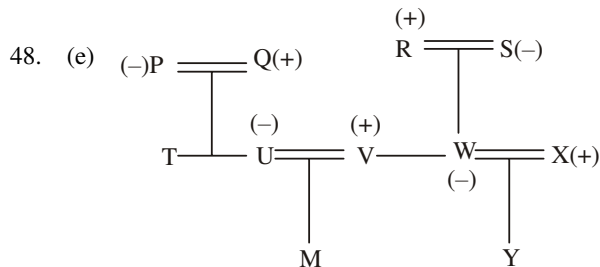
For II: No, it strengthens the statement by manager as performance chart has been prepared and appraisal will be done accordingly.

For III: Yes, it weakens because it is mentioned that punctuality is one of the key factor and if those who is punctual and those who gets relaxation time and both are considered as same, then it's a partiality for the punctual coming employee.

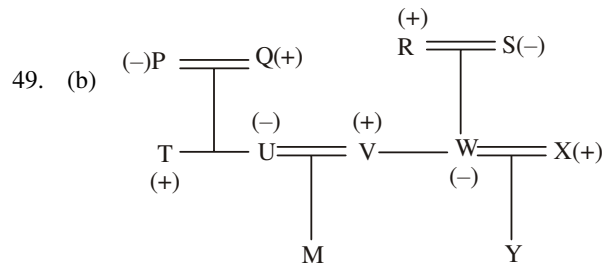
Sol. (41-45)

| Case 3                |           |               |
|-----------------------|-----------|---------------|
| Position of Container | Container | No. of Toffee |
| 9 <sup>th</sup>       | V         | 60            |
| 8 <sup>th</sup>       | P         | 81            |
| 7 <sup>th</sup>       | S         | 72            |
| 6 <sup>th</sup>       | W         | 63            |
| 5 <sup>th</sup>       | Q         | 42            |
| 4 <sup>th</sup>       | U         | 25            |
| 3 <sup>rd</sup>       | X         | 12            |
| 2 <sup>nd</sup>       | T         | 9             |
| 1 <sup>st</sup>       | R         | 8             |

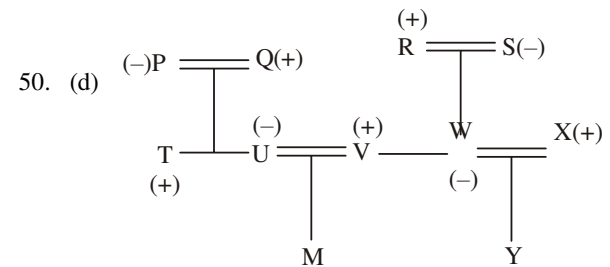
41. (c) 42. (d) 43. (c) 44. (a) 45. (a)
46. (b) For I: Yes, as it is mentioned in statement that nowadays there are 4 major industries in Begusarai, then it is obvious employment will increase.
- For II: No, we cannot say that there is no case of murder, kidnapping or extortion, we can only say it has been reduced. But this reduction has touch the figure of zero, it cannot be inferred.
- For III: Yes, as it is mentioned growth rate of Begusarai is top in Bihar and 5th among all districts in India, and Begusarai has moved from the phase of darkness. It clearly indicates that people of Begusarai are hardworking and keen to move forward.
- For IV: No, it has been mentioned that nowadays Begusarai has 4 major industries but we cannot say that top industrialists have desire to have their industry in Begusarai.
47. (d) I is an assumption. II is a suggestion but not a conclusion. Hence, neither I nor II follows.



We can't be determined that how M related to Q.



Hence, T is brother-in-law of V.



Hence, Y is son of X.

51. (a) Base fare between Delhi and Patna by airways AA =  $2D + 500 = ₹ 2900$   
Base fare between Delhi and Patna by airways BB =  $3D - 1000 = ₹ 2600$   
Total fare from Delhi to Patna =  $2900 + 25\% \text{ of } 2900 + 10\% \text{ of } 2900 + 20\% \text{ of } 25\% \text{ of } 2900 = 2900 + 725 + 290 + 145 = ₹ 4060$   
Total fare from Patna to Delhi =  $2600 + 25\% \text{ of } 2600 + 10\% \text{ of } 2600 + 20\% \text{ of } 25\% \text{ of } 2600 = 2600 + 650 + 260 + 130 = ₹ 3640$   
Required difference =  $4060 - 3640 = ₹ 420$
52. (b) Base fare of Monu from Bhopal to Puna by airways BB =  $3D - 1000 = ₹ 1250$   
Base fare of Sindhu from Bhopal to Pune by airways CC =  $80\% \text{ of } (2D + 3500) = ₹ 1800$   
Total fare from Bhopal to Pune =  $1250 + 25\% \text{ of } 1250 + 10\% \text{ of } 1250 + 20\% \text{ of } 25\% \text{ of } 1250 = 1250 + 312.5 + 125 + 62.5 = ₹ 1750$   
Total fare from Bhopal to Puna =  $1800 + 25\% \text{ of } 1800 + 10\% \text{ of } 1800 + 20\% \text{ of } 25\% \text{ of } 1800 = 1800 + 450 + 180 + 90 = ₹ 2520$   
Total reimbursement made by the company to both the employees =  $1750 + 2520 = ₹ 4270$
53. (c) Base fare of Chennai to Bangalore by airways AA =  $2D + 500 = ₹ 1700$  Base fare of Chennai to Bangalore by airways BB =  $3D - 1000 = ₹ 800$   
Base fare of Chennai to Bangalore by airways CC =  $36\% \text{ of } (2D + 3500) = ₹ 1692$

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- Base fare of Chennai to Bangalore =  $1692 + 908 = ₹ 2600$   
 Total fare of Sapna when she goes from Chennai to Bangalore  
 $= 1700 + 25\% \text{ of } 1700 + 10\% \text{ of } 1700 + 20\% \text{ of } 25\% \text{ of } 1700$   
 $= 1700 + 425 + 170 + 85 = ₹ 2380$   
 Total fare of Sapna when she goes from Bangalore to Chennai  
 $= 800 + 25\% \text{ of } 800 + 10\% \text{ of } 800 + 20\% \text{ of } 25\% \text{ of } 800$   
 $= 800 + 200 + 80 + 40 = ₹ 1120$   
 Total fare of Rajat when he goes from Chennai to Bangalore and comes back to Chennai.  
 $= 2600 + 25\% \text{ of } 2600 + 15\% \text{ of } 2600 + 30\% \text{ of } 25\% \text{ of } 2600$   
 $= 2600 + 650 + 390 + 195 = ₹ 3835$   
 Required difference ratio =  $(2380 + 1120) - 3835 = ₹ 335$
54. (b) Base fare from Shrinagar to Ajmer by airways CC  
 $= 36\% \text{ of } (2D + 3500) = ₹ 2700$   
 Base fare from Ajmer to Shrinagar by airways DD  
 $= 30\% \text{ of } [3.5D + (2D/3)] = ₹ 2500$   
 Total fare from Shrinagar to Ajmer  
 $= 2700 + 25\% \text{ of } 2700 + 10\% \text{ of } 2700 + 20\% \text{ of } 25\% \text{ of } 2700$   
 $= 2700 + 675 + 270 + 135 = ₹ 3780$   
 Total fare from Ajmer to Shrinagar  
 $= 2500 + 25\% \text{ of } 2500 + 10\% \text{ of } 2500 + 20\% \text{ of } 25\% \text{ of } 2500$   
 $= 2500 + 625 + 250 + 125 = ₹ 3500$   
 Required per cent =  $[(3780 - 3500)/3500] \times 100 = 8\%$
55. (d) Let the distance between Hyderabad and Kolkata = 'D' km  
 Base fare from Kolkata to Hyderabad by airways EE =  $80\% \text{ of } (0.01D^2 - 0.75D) = (0.008D^2 - 0.6D)$   
 Total fare from Kolkata to Hyderabad  
 $= (0.008D^2 - 0.6D) + 25\% \text{ of } (0.008D^2 - 0.6D) + 10\% \text{ of } (0.008D^2 - 0.6D) + 20\% \text{ of } 25\% \text{ of } (0.008D^2 - 0.6D) = 3528$   
 $140\% \text{ of } (0.008D^2 - 0.6D) = 3528$   
 $(0.008D^2 - 0.6D) = 2520$ ;  $D = 600 \text{ km}$
56. (b) Let the certain number  
 $N = 5[7(8x + 4) + 3] + 2 = 35(8x) + 140 + 17 = 280x + 157$   
 When this is divided by 8, quotient =  $35x + 19$  and remainder = 5  
 When  $(35x + 19)$  is divided by 7, quotient =  $5x + 2$  and remainder = 5  
 When  $(5x + 2)$  is divided by 5, quotient =  $x$  and remainder = 2.
57. (a) Contribution of Vijay and Ajay =  $1/4 \times 1/2 : 1/5 \times 1/4 = 1/8 : 1/20$   
 Contribution of Sanjay =  $1 - (1/4 + 1/5) = 11/20$   
 Share of Vijay, Ajay and Sanjay =  $1/8 : 1/20 : 11/20$   
 on solving we get Ratio of profit sharing =  $5 : 2 : 22$   
 Profit share of Ajay and Sanjay  
 $= 17,400 \times (2 + 22) / 29 = ₹ 14,400$
58. (c) Let the Present age is =  $x$
- |         | Sanjeet    | Manjeet    |
|---------|------------|------------|
| Past    | $(5x - 4)$ |            |
| Present | $5x$       | $3x$       |
| Future  |            | $(3x + 4)$ |
- According to question,  
 $(5x - 4) / (3x + 4) = 1 : 1$   
 So,  $(5x - 4) = (3x + 4)$   
 Solving we get  $2x = 8$   
 $x = 4$   
 Hence, Sanjeet's present age =  $5x = 5 \times 4 = 20$  and after 4 years it will be 24 years.  
 Manjeet's present age =  $3x = 3 \times 4 = 12$  and before 4 years it was 8 years  
 Thus Ratio will be  $24 : 8 = 3 : 1$
59. (b) Sum of 7 can be achieved in 4 ways (6, 1), (1, 6), (5, 2), (2, 5), (3, 4) and (4, 3)  
 Probability of a sum of 7 on the dice =  $6/36 = 1/6$   
 Probability of at least 2 coins showing on head
- $$= {}^4C_2 \left(\frac{1}{2}\right)^4 + {}^4C_3 \left(\frac{1}{2}\right)^4 + {}^4C_4 \left(\frac{1}{2}\right)^4$$
- $$\Rightarrow (6 + 4 + 1) \times \left(\frac{1}{2}\right)^4 = \frac{11}{16}$$
- Thus, the required probability =  $\frac{11}{16} \times \frac{1}{6} = \frac{11}{96}$
60. (d) When the trains are moving in the same direction, the faster train crosses the slower when the tail of the faster just passes the front end of the slower train.  
 Hence, the distance that the faster train has to cover before crossing the slower train  
 $= \text{Sum of the length of the trains} = (500 + 750) \text{ m} = 1250 \text{ m}$   
 Relative speed of the faster train with respect to the slower =  $(60 - 33) \text{ km/hr}$   
 $= 27 \text{ km/hr} = 7.5 \text{ m/s}$   
 Thus, time taken for the faster train to cross the slower  
 $= \frac{1250}{7.5} \text{ sec} = 166.7 \text{ sec}$
61. (c) Total attempted questions in Math =  $80 \times (7/20) = 28$   
 Total attempted questions in Science =  $80 \times (8/20) = 32$   
 Total attempted questions in English =  $80 \times (5/20) = 20$   
 Normalized marks in Math =  $1.2 \times [5 \times 28 \times (6/7)] - \{2 \times 28 \times (1/7)\} - \{0.5 \times (35 - 28)\} = 130.2$   
 Normalized marks in Science =  $[5 \times 32 \times (5/8)] - \{2 \times 32 \times (3/8)\} - \{0.5 \times (35 - 32)\} = 74.5$   
 Normalized marks in English =  $[5 \times 20 \times (3/4)] - \{2 \times 20 \times (1/4)\} - \{0.5 \times (30 - 20)\} = 60$   
 Total marks in the exam =  $130.2 + 74.5 + 60 = 264.7$

62. (a) Attempted questions in Math =  $35 - 19 = 16$   
 Attempted questions in Science =  $35 - 23 = 12$   
 Attempted questions in English =  $30 - 20 = 10$   
 Sectional marks in Math =  $5 \times 16 \times (15/16) - 2 \times 16 \times (1/16) - 0.5 \times 19 = 63.5$   
 Sectional marks in Science =  $5 \times 12 \times (5/6) - 2 \times 12 \times (1/6) - 0.5 \times 23 = 34.5$   
 Sectional marks in English =  $5 \times 10 \times (7/10) - 2 \times 10 \times (3/10) - 0.5 \times 20 = 19$   
 Required ratio =  $63.5 : 34.5 : 19 = 127 : 69 : 38$
63. (d) Total attempted questions in Math =  $60\%$  of  $35 = 21$   
 Total attempted questions in Science =  $71(3/7)\%$  of  $35 = 25$   
 Total attempted questions in English =  $70\%$  of  $30 = 21$   
 Total right answers marked by him  
 $= 21 \times (5/7) + 25 \times (3/5) + 21 \times (4/7)$   
 $= 15 + 15 + 12 = 42$   
 Total wrong answers marked by him  
 $= (21 + 25 + 21) - 42 = 25$   
 Required per cent =  $[(42 - 25)/25] \times 100 = 68\%$
64. (b) Normalized marks of Debu in Math  
 $= 0.8 \times [\{5 \times 15\} - \{2 \times 15\} - \{0.5 \times (35 - 30)\}] = 34$   
 Normalized marks of Debu in Science  
 $= 1.2 \times [\{5 \times 20\} - \{2 \times 20 \times (1/4)\} - \{0.5 \times (35 - 25)\}] = 102$   
 Normalized marks of Debu in English  
 $= [\{5 \times 17\} - \{2 \times 7\} - \{0.5 \times (30 - 24)\}] = 68$   
 Required ratio =  $34 : 102 : 68 = 1 : 3 : 2$
65. (b) Let number of questions attempted by Enna in Math, Science and English is '6x', '4x' and '5x' respectively.  
 Total un-attempted questions by Enna  
 $= 100 - (6x + 4x + 5x) = (100 - 15x)$   
 Normalized marks in Math  
 $= [5 \times 4x - 2 \times 2x - 0.5 \times (35 - 6x)] = (19x - 17.5)$   
 Normalized marks in Science  
 $= [5 \times 2.5x - 2 \times 1.5x - 0.5 \times (35 - 4x)] = (11.5x - 17.5)$   
 Normalized marks in English =  $[5 \times 3.75x - 2 \times 1.25x - 0.5 \times (30 - 5x)] = (18.75x - 15)$   
 Total marks in the test  
 $= (19x - 17.5) + (11.5x - 17.5) + (18.75x - 15) = 147$   
 $49.25x = 147 + 50$   
 $x = 4$   
 Total un-attempted questions by Enna =  $(100 - 15x) = 40$
66. (b)  $1/\text{Kalraju} = 1/30$   
 $1/\text{Kalraju} + 1/\text{Mithun} = \frac{1}{20}$   
 $\Rightarrow 1/30 + 1/\text{Mithun} = \frac{1}{20}$   
 $\Rightarrow 1/\text{Mithun} = \frac{1}{20} - \frac{1}{30}$   
 $\Rightarrow 1/\text{Mithun} = (3 - 2)/60$

$$\Rightarrow 1/\text{Mithun} = \frac{1}{60}$$

$$1/\text{Riyas} = 1.5/60$$

$$\Rightarrow 1/\text{Riyas} = \frac{1}{40}$$

Let, required time = t days

$$(I) \quad 1/J. \text{ Murthy} = \frac{1.5}{30} = \frac{1}{20}$$

$$t \times \left( \frac{1}{20} + \frac{1}{40} \right) = 1$$

$$\Rightarrow t \times \frac{(2 + 1)}{40} = 1$$

$$\Rightarrow t = \frac{40}{3} \text{ days} = \frac{40}{3}$$

$\Rightarrow$  Satisfies the given condition.

$$(II) \quad 1/J. \text{ Murthy} = \frac{2}{30} = \frac{1}{15}$$

$$t \times \left( \frac{1}{15} + \frac{1}{40} \right) = 1$$

$$\Rightarrow t \times \left( \frac{8+3}{120} \right) = 1$$

$$\Rightarrow t = \frac{120}{11} \text{ days} \neq 4/3$$

$\Rightarrow$  Doesn't satisfy the given condition.

$$(III) \quad 1/J. \text{ Murthy} = \frac{3}{30} = \frac{1}{10}$$

$$t \times \left( \frac{1}{10} + \frac{1}{40} \right) = 1$$

$$\Rightarrow t \times \frac{4+1}{40} = 1$$

$$\Rightarrow t = \frac{40}{5}$$

$$\Rightarrow t = 8 \text{ days} = 8$$

= Satisfies the given condition.

67. (a) Work done by Arjun, Banita in one day,

$$\text{Arjun} + \text{Banita} = \frac{1}{24}$$

Work done by Arjun, Chahak in one day,

$$\text{Chahak} + \text{Arjun} = \frac{1}{32}$$

Work done by Arjun, Chahak, Dablu in one day,

$$\text{Arjun} + \text{Chahak} + \text{Dablu} = \frac{1}{24}$$

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Work done by Dablu in one day,

$$\frac{1}{32} + \text{Dablu} = \frac{1}{24}$$

$$\text{Dablu} = \frac{1}{24} - \frac{1}{32} = \frac{1}{96}$$

Dablu can complete the work in 96 days.

Work done by Banita in one day,

Banita = 2 Dablu

$$\text{Banita} = \frac{2}{96}$$

$$\text{Banita} = \frac{1}{48}$$

Banita can complete the work in 48 days.

Work done by Arjun in one day,

$$\text{Arjun} + \text{Banita} = \frac{1}{24}$$

$$\text{Arjun} = \frac{1}{24} - \frac{1}{48}$$

$$\text{Arjun} = \frac{1}{48}$$

Arjun can complete the work in 48 days.

Work done by Chahak in one day,

$$\text{Chahak} + \text{Arjun} = \frac{1}{32}$$

$$\text{Chahak} = \frac{1}{32} - \frac{1}{48}$$

$$\text{Chahak} = \frac{1}{96}$$

Chahak can complete the work in 96 days.

Work done by Chahak, Dablu in one day,

$$\text{Chahak} + \text{Dablu} = \frac{1}{96} + \frac{1}{96} = \frac{2}{96} = \frac{1}{48}$$

Chahak and Dablu can complete the work in 48 days.

$$68. (a) \quad 350 = \text{speed of train Taj Mail} \times \frac{5}{18} \times 21$$

Speed of train Taj Mail = 60 kmph

$$250 = \text{speed of train JP Mail} \times \frac{5}{18} \times 10$$

Speed of train JP Mail = 90 kmph

$$(i) \quad 350 + 250 = (60 + 90) \times \frac{5}{18} \times \text{required time}$$

Required time = 14.4 seconds

$$(ii) \quad 350 + \text{length of the bridge} = 60 \times \frac{5}{18} \times 36$$

Length of the bridge = 250 m

$$(iii) \quad 250 = (90 - 30) \times \frac{5}{18} \times \text{Required time}$$

Required time = 15 seconds

$$(iv) \quad \text{Ratio of the speed of train Taj Mail to}$$

$$\text{JP Mail} = 60 : 90 = 2:3$$

$$69. (a) \quad 24x \times 7x \times 12x = 2016$$

$$x = 1 \text{ cm}$$

$$\text{Breadth of the cuboid} = 7 \times 1 = 7 \text{ cm}$$

$$\text{Length of the cuboid} = 24 \times 1 = 24 \text{ cm}$$

$$\text{Height of the cuboid} = 12 \times 1 = 12 \text{ cm}$$

$$\text{Diagonals of the cuboid} = \sqrt{7^2 + 24^2 + 12^2} = \sqrt{769} \text{ cm}$$

Surface area of the cuboid

$$= 2 \times (24 \times 7 + 7 \times 12 + 24 \times 12) = 1080$$

Height of the cone = 24 cm

Radius of the cone = 7 cm

$$\text{Slanting height of the cone} = \sqrt{24^2 + 7^2} = 25$$

$$\text{Volume of the cone} = \frac{1}{3} \times 22/7 \times 7 \times 7 \times 24 = 1232 \text{ cm}^3$$

$$70. (a) \quad \text{According to question}$$

Employees (Hindi) = 80%

Employees (English) = 45%

$$\text{Employees (Hindi and English)} = (80 + 45) - 100$$

$$= 125 - 100 = 25\%$$

$$(a) \quad \text{Students (Hindi and English)} = \frac{25}{100} \times 800 = 200$$

= Satisfies the given condition

$$(b) \quad \text{Students (Hindi and English)} = \frac{25}{100} \times 1200$$

$$= 300 \neq 400$$

= Doesn't satisfy the given condition.

$$(c) \quad \text{Students (Hindi and English)} = \frac{25}{100} \times 1000$$

$$= 250 \neq 200 = \text{Doesn't satisfy the given condition.}$$

$$71. (d) \quad \text{Akai's turnover:}$$

BPL sales in Washing Machine = 337 26% of market

Akai's share = 30% of market

$$= (30 \times 337) \div 26 = 390 \text{ approx}$$

Godrej turnover:

BPL sales in Audio System = 190 = 38% of market

Godrej share = 40% of market =  $(40 \times 190) \div 38 = 200$

Percentage by which Akai's turnover is greater than

$$\text{Godrej} = (390 - 200) \div 200 \times 100 = 95\% \text{ Approx.}$$

$$72. (e) \quad \text{Though we know the market share, we do not know the value of the market as no value nor is percentage growth related to 2018 given. So we cannot calculate.}$$

$$73. (c) \quad \text{In 2018, market share} = 38\%, \text{ it was } 41\% \text{ in 2015.}$$

$$\text{Sales } S = 190 / [1 + 20/100]^3 = 109.95$$

$$\text{Total refrigerator market in 2015} = (100/41) \times 109.95 = 268 \text{ crore.}$$

74. (a) In 2018 BPL's sales = 337  
In 2015 BPL's sales = S  
 $337 = S [1 + 10/100]^3 = S \times (1.1)^3$   
 $= (337/1.331) \times 10^7 \Rightarrow S = 2500 \times 10^6$   
 $= 2500 \text{ million.}$

75. (d) Data inadequate is the answer because we don't have any additional information regarding the sales and market share of the MI in the Category of Washing Machine.

76. (a) From statement II  
 $S_m = 1 - 1/2^m$   
 $S_m - 1 = 1 - 1/2^{m-1}$   
 $\Rightarrow t_m = (1 - 1/2^{m-1}) - (1 - 1/2^m) = 1/2^m$   
 $\Rightarrow \text{Common ratio} = 1/2$

From statement I:

$$a / 1 - r = 2$$

$$\Rightarrow a = 2(1 - r)$$

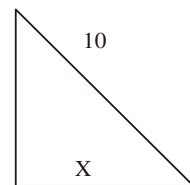
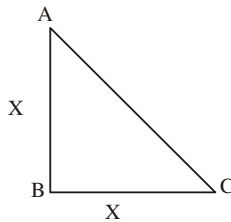
$$\Rightarrow r = \left( \frac{2-a}{2} \right)$$

We cannot have the value of r. So only statement I, alone give the answer.

77. (e) Statement I:  
Here  $\triangle ABC$  is a isosceles right-angle triangle with  $AB = BC = X \text{ cm}$   
Area =  $1/2 x^2$ ; but we don't know the length of x. So area cannot be found out by I.

Statement II: We have only one length = 15 cm. So we can't find the area from II, alone

Combining I and II:



$$\text{Area} = 1/2 x^2 \text{ and } 2x^2 = 15^2 \Rightarrow x^2 = \frac{225}{2}$$

$$\Rightarrow \text{Area} = 56.25 \text{ sq. units}$$

$\Rightarrow$  So, I and II, combined solve this problem.

78. (d) Statement I: Gives no information about  $n(E)$  or  $n(E \cap H)$   
Statement II: Gives  $n(E \cup H)$  but we cannot count  $n(E)$   
From both I and II we get  $n(E \cup H) = n(E) + [n(H) - n(E \cap H)]$   
or  $300 = n(E) + 100$   
 $\Rightarrow n(E) = 200$

Hence, from both statements is necessary to give the answer.

79. (d) Statement I provide the car load for onset of roads. No data is given for the other set.  
Statement II only defines the logic for movement of traffic but no data on the time it would take to wait on each road.

80. (c) From Statement I, Champa got 8000 so  $4x = 8000$   
So  $x = 2000$

$$\text{So total profit} = 6x + 3x + 4x = 13x$$

$$= 13 \times 2000 = 26,000$$

$$\text{So profit\%} = 26000/52000 \times 100 = 50\%$$

$$\text{From II, } 6x - 3x = 6000$$

$$\text{So } x = 2000$$

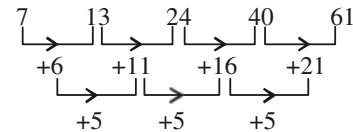
Further same as in I.

81. (b) **Series – I pattern:**

The pattern is,  $+(1 \times 3)$ ,  $+(2 \times 6)$ ,  $+(3 \times 9)$ ,  $+(4 \times 12)$ ,...

The answer is, 78

**Series – II pattern:**



The difference of difference is 5.

The answer is, 87

**Series – III pattern:**

$$5 + (4^2 - 1) = 20$$

$$20 + (6^2 - 3) = 53$$

$$53 + (8^2 - 5) = 112$$

$$112 + (10^2 - 7) = 205$$

$$205 + (12^2 - 9) = 340$$

The answer is, 340

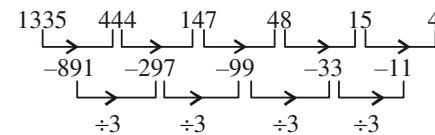
Hence,  $a < b < c$

82. (a) **Series – I pattern:**

The pattern of the series is  $1^4, 2^4, 3^4, 4^4, 5^4, \dots$

The answer is, 2401

**Series – II pattern:**



The answer is, 48.

**Series – III pattern:**

The pattern is,  $\times 2 - 3^2$ ,  $\times 3 + 4^2$ ,  $\times 4 - 5^2$ ,  $\times 5 + 6^2$ ,  $\times 6 - 7^2$ , ...

The answer is, 1011

Hence,  $a > b < c$

83. (c) **Series – I pattern:**

The pattern of the series is  $+3, -2, +3, -2, \dots$

The answer is, 17

**Series – II pattern:**

The pattern is,  $\times 1 + 1$ ,  $\times 2 + 2$ ,  $\times 3 + 3$ ,  $\times 4 + 4$ ,  $\times 5 + 5$ ,...

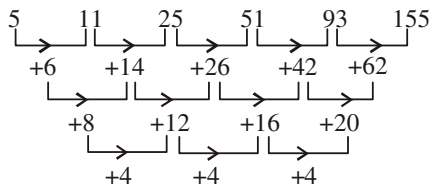
The answer is, 832



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**Series – III pattern:**



The difference of difference is, 8, 12, 16, 20,....

The answer is, 93

Hence,  $a < b > c$

84. (e) **Series – I pattern:**

$$9 \times 2 + 1 = 19$$

$$19 \times 3 + 2 = 59$$

$$59 \times 4 + 3 = 239$$

$$239 \times 5 + 4 = 1199$$

$$1199 \times 6 + 5 = \mathbf{7199}$$

The bolded number is not followed the given series.

**Series – II pattern:**

$$32 \times 0.5 = 16$$

$$16 \times 1.5 = 24$$

$$24 \times 2.5 = 60$$

$$60 \times 3.5 = \mathbf{210}$$

$$210 \times 4.5 = 945$$

The bolded number is not followed the given series.

**Series – III pattern:**

$$72 + 5 = 77$$

$$77 + 10 = 87$$

$$87 + 15 = 102$$

$$102 + 20 = 122$$

$$122 + 25 = 147$$

The bolded number is not followed the given series.

85. (a) **Series – I pattern:**

$$78 \times 2 = 156$$

$$156 \times 3 = 468$$

$$468 \times 5 = 2340$$

$$2340 \times 7 = 16380$$

The bolded number is followed the given series.

**Series – II pattern:**

$$128 \times 0.5 + 1 = 65$$

$$65 \times 1 + 3 = 68$$

$$68 \times 2 + 5 = 141$$

$$141 \times 4 + 7 = 571$$

$$571 \times 8 + 9 = 4577$$

The bolded number is not followed the given series.

**Series – III pattern:**

$$64 \times 0.5 + 1 = 33$$

$$33 \times 1 + 1 = 34$$

$$34 \times 1.5 + 1 = 52$$

$$52 \times 2 + 1 = 105$$

$$105 \times 2.5 + 1 = 263.5$$

The bolded number is not followed the given series.

86. (a) Let the weight of P, Q, R and S are  $9x$ ,  $7x$ ,  $4x$  and  $5x$  respectively.

Quantity – I : Total weight of P, Q and R = 225 kg

$$9x + 7x + 4x = 225$$

$$20x = 225$$

$$x = 11.25$$

$$\therefore \text{Weight of P} = 9x = 101.25 \text{ kg}$$

Quantity – II : Total weight of Q, R and S = 180 kg.

$$7x + 4x + 5x = 180$$

$$16x = 180$$

$$x = 11.25$$

$$\therefore \text{Weight of Q} = 7x = 78.75 \text{ kg.}$$

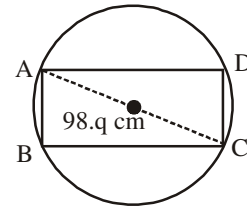
Quantity III :

Weight of S =  $5x$

$$= 5 \times 11.25 = 56.25 \text{ kg}$$

Hence, Quantity – I > Quantity – II > Quantity – III

87. (a) From the question,



Area of the square = 98 sq. cm

$\therefore$  Side of the square =  $AB = AC$

$$\sqrt{98} = 7\sqrt{2} = \text{cm}$$

$$\text{In } \triangle ABC, AC = \sqrt{(AB)^2 + (BC)^2}$$

From the question,

$$AC = \sqrt{(7\sqrt{2})^2 + (7\sqrt{2})^2}$$

$$= \sqrt{98} = 14$$

Diameter of the circle  $AC = 14 \text{ cm}$

Quantity – I : Area of the circular region P

$$= \pi \left( \frac{14}{2} \right)^2 = 154 \text{ sq. cm}$$

Quantity – II : Area of the circular region P outside the square ABCD =  $154 - 98 = 56 \text{ sq. cm}$

Quantity – III : Perimeter of the circular region P

$$= \pi (14) = 44 \text{ cm}$$

So, Quantity – I > Quantity – II > Quantity – III.

88. (b) From question Dipak's investment = ₹ 1000

Let Panas's investment is ₹  $x$

Sanjeet's investment is ₹  $2x$

Then,  $10000 + 2x + x = 22,000$

$$3x = 12000$$

$$x = 4000$$

$$\therefore \text{Panas's investment} = ₹ 4000$$

$$\text{Sanjeet's investment} = ₹ 8000$$

$$\text{and Dipak's investment} = ₹ 10000$$

$$\text{Ratio of investment} = 4000 : 8000 : 10000 = 2 : 4 : 5.$$

Quantity – I : Profit received by Panas in 3 years

$$= \frac{2}{2+4+5} \times 2750 \times 3$$

$$= ₹ 1500$$

Quantity II : Profit received by Snajeet in 18 months.

$$= \frac{4}{(2+4+5)} \times 2750 \times 1.5 = ₹ 1500$$

Quantity III : Profit received by Dipak in 1 year

$$= \frac{2}{(2+4+5)} \times 2700 = ₹ 1250.$$

∴ Quantity I = Quantity II > Quantity III

89. (d) **Quantity I:**

Assume units of work done = 24 [LCM (8, 12)]

$$\text{Units of work done by Tomy in a day} = \frac{24}{8} = 3$$

$$\text{Units of work done by Jacky in a day} = \frac{24}{12} = 2$$

$$2 \text{ days units done} = 3 + 2 = 5$$

$$8 \text{ days units done} = 20$$

$$9 \text{ days units done} = 23$$

$$\text{On } 10^{\text{th}} \text{ day work to be done} = 24 - 23 = 1 \text{ unit}$$

$$\text{On } 10^{\text{th}} \text{ days as Jacky working, time required} = \frac{1}{2} \text{ day.}$$

$$\text{Total time} = 9 \frac{1}{2} \text{ days.}$$

**Quantity II:**

Let the total amount be ₹ x

$$\text{Udya's wage per day is } \frac{x}{21}$$

$$\text{Muday's wage per day is } \frac{x}{20}$$

When working together wage paid per day to them is

$$\frac{x}{20} + \frac{x}{21} = \frac{x \times 41}{420}$$

$$\text{Number of days} = \frac{x \times 420}{x \times 41} = 10.24 \text{ days}$$

Hence, Quantity I < Quantity II

90. (a) **Quantity I:**

$$SP = \frac{129}{100} \times CP_1 = ₹ 12900; CP_1 = 10000$$

$$CP \text{ of Air Purifier} = 12900 \times 2 - 10000 = 15800$$

He sold the Air purifier for ₹ 12900

$$\text{Loss} = \frac{(15800 - 12900)}{15800} \times 100$$

$$= \frac{2900}{15800} \times 100 = 18.35\%$$

**Quantity II:**

Suppose the initial turnover is x and the compounded annual growth rate is r. Then we have

$$3x = x \left( \frac{1+r}{100} \right)^3 \text{ or } \left( \frac{1+r}{100} \right)^3 = \sqrt[3]{3} = 1.4422$$

$$\text{Or } r = 44.22\%$$

Hence, Quantity I < Quantity II

91. (d) Let speed of boat in still water = x km/hr

Speed of current = y km/hr

$$(x - y) \times 336 = (x + y) \times 180$$

Solving we get the ratio of speed of boat and speed of current = 28:15

92. (c) Let, length of train Doon Express be l metres

And speed of train Doon Express be s Km/h.

$$l = (s - 4) \times \frac{5}{18} \times 32.4$$

$$\Rightarrow l = (s - 4) \times 9$$

$$\Rightarrow l = 9s - 36 \quad \dots(i)$$

$$l + 740 = s \times \frac{5}{18} \times 90$$

$$\Rightarrow l + 740 = 25s$$

$$\Rightarrow l = 25s - 740 \quad \dots(ii)$$

From (i) and (ii)

$$9s - 36 = 25s - 740$$

$$\Rightarrow 25s - 9s = 740 - 36$$

$$\Rightarrow 16s = 704$$

$$\Rightarrow s = \frac{704}{16}$$

$$\Rightarrow s = 44 \text{ Km/h}$$

From (i)

$$l = 9 \times 44 - 36$$

$$\Rightarrow l = 396 - 36$$

$$\Rightarrow l = 360 \text{ m}$$

Let, required time taken = t seconds

$$(I) (360 + 540) = (44 + 36) \times \frac{5}{18} \times t$$

$$\Rightarrow 900 = 80 \times \frac{5}{18} \times t$$

$$\Rightarrow t = \frac{900}{80} \times \frac{18}{5}$$

$$\Rightarrow t = 40.5 \text{ seconds} = 40.5$$

⇒ Satisfies the given condition.

$$(II) (360 + 420) = (44 + 36) \times \frac{5}{18} \times t$$

$$\Rightarrow 780 = 80 \times \frac{5}{18} \times t$$

$$\Rightarrow t = \frac{780}{80} \times \frac{18}{5}$$

$$\Rightarrow t = 35.1 \text{ seconds} \neq 36.3$$

= Doesn't satisfy the given condition.

$$(III) (360 + 440) = (44 + 36) \times \frac{5}{18} \times t$$

$$\Rightarrow 800 = 80 \times \frac{5}{18} \times t$$

$$\Rightarrow t = \frac{800}{80} \times \frac{18}{5}$$

$$\Rightarrow t = 36 \text{ seconds} = 36$$

= Satisfies the given condition.

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93. (d)

(a) Ratio of shares in the profit:

$$A : B : C = (2P + 3P \times 2) :$$

$$(1.5P \times 2 + 3P) : (3P \times 3)$$

$$= 8P : 6P : 9P$$

$$= 8:6:9$$

$$\text{Share of C in the profit} = \frac{9}{(8 + 6 + 9)} \times 115000$$

$$= \frac{9}{23} \times 115000$$

$$= ₹ 45000 = 45000$$

= Satisfies the given condition.

(b) Ratio of shares in the profit:

$$A : B : C = (2P + 3P \times 2) :$$

$$(1.5P \times 2 + 3P) : (2P \times 3)$$

$$= 8P : 6P : 6P$$

$$= 4:3:3$$

$$\text{Share of C in the profit} = \frac{3}{(4 + 3 + 3)} \times 115000$$

$$= \frac{3}{10} \times 115000$$

$$= ₹ 34500 = 34500$$

= Satisfies the given condition.

(c) Ratio of shares in the profit:

$$A : B : C = (2P + 3P \times 2) : (1.5P \times 2 + 3P) : (P \times 3)$$

$$= 8P : 6P : 3P$$

$$= 8:6:3$$

$$\text{Share of C in the profit} = \frac{3}{(8 + 6 + 3)} \times 115000$$

$$= \frac{3}{17} \times 115000$$

$$= ₹ 20294.117 \neq 21000$$

= Doesn't satisfy the given condition.

94. (d) Amount of Alcohol in the initial mixture

$$= \frac{7}{10} \times 120 = 84 \text{ litres}$$

Amount of water in the initial mixture

$$= \frac{3}{10} \times 120 = 36 \text{ litres}$$

$$\text{(I) Amount of Alcohol in the final mixture} = \frac{84-7}{10 \times 40 + 8}$$

$$= 84 - 28 + 8 = 64 \text{ litres}$$

$$\text{Amount of water in the final mixture} = \frac{36-3}{10 \times 40 + 2}$$

$$= 36 - 12 + 2 = 26 \text{ litres}$$

$$\text{Concentration of Alcohol} = \frac{64}{(64 + 26)} \times 100$$

$$= \frac{64}{90} \times 100$$

$$= 71.11\% \neq 78$$

= Doesn't satisfy the given condition.

(II) Amount of Alcohol in the final mixture

$$= 84 - \frac{7}{10} \times 60 + 8$$

$$= 84 - 42 + 8$$

$$= 50 \text{ litres}$$

$$\text{Amount of water in the final mixture} = 36 - \frac{3}{10} \times 60 + 2$$

$$= 36 - 18 + 2 = 20 \text{ litres}$$

$$\text{Concentration of Alcohol} = \frac{50}{(50 + 20)} \times 100$$

$$= \frac{50}{70} \times 100$$

$$= 71.42\% \neq 84$$

= Doesn't satisfy the given condition.

$$\text{(III) Amount of Alcohol in the final mixture} = 84 - \frac{7}{10} \times 30 + 8$$

$$= 84 - 21 + 8 = 71 \text{ litres}$$

$$\text{Amount of water in the final mixture} = 36 - \frac{3}{10} \times 30 + 2$$

$$= 36 - 9 + 2 = 29 \text{ litres}$$

$$\text{Concentration of Alcohol} = \frac{71}{(71 + 29)} \times 100$$

$$= \frac{71}{100} \times 100 = 71\% = 71$$

= Satisfies the given condition.

95. (d) Let, cost price = ₹ P

$$\text{(a) } P \times \frac{120}{100} \times \frac{95}{100} = 912$$

$$\Rightarrow P = 912 \times \frac{100}{95} \times \frac{100}{120}$$

$$\Rightarrow P = ₹ 800$$

$$\% \text{ profit} = \frac{(912-800)}{800 \times 100}$$

$$= \frac{112}{800} \times 100$$

$$= 14\% = 14$$

= Satisfies the given condition.

$$\text{(b) } P \times \frac{125}{100} \times \frac{95}{100} = 912$$

$$\Rightarrow P = 912 \times \frac{100}{95} \times \frac{100}{125}$$

$$\Rightarrow P = 768$$

$$\% \text{ profit} = \frac{(912-768)}{768 \times 100}$$

$$= \frac{144}{768} \times 100$$

$$= 18.75\% = 18.75$$

= Satisfies the given condition.

$$(c) P \times \frac{150}{100} \times \frac{95}{100} = 912$$

$$\Rightarrow P = 912 \times \frac{100}{95} \times \frac{100}{150}$$

$$\Rightarrow P = 640$$

$$\% \text{ profit} = \frac{(912-640)}{640 \times 100}$$

$$= \frac{272}{640} \times 100$$

$$= 42.5\% = 42.5$$

= Satisfies the given condition.

**Sol. (96 - 100):**

Total distance travelled by Rudra Pratap =  $6 \times 40 = 240$  km

Total distance travelled by Rudra Pratap =  $2 \times$  Total distance travelled by Arka Pratap

$240 = 2 \times$  Total distance travelled by Arka Pratap

$$\frac{240}{2} = 120 = \text{Total distance travelled by Arka Pratap (A)}$$

$$\text{Speed of Arka Pratap} = \frac{120}{2} = 60 \text{ km/hr}$$

$$\text{New speed of Arka Pratap} = 60 \times \frac{125}{100} = 72 \text{ km/hr}$$

New time taken by Arka Pratap to cover the same distance

$$= \frac{120}{72} = 1 \text{ hr } 40 \text{ minutes}$$

Required time = 2 hrs – 1 hr 40 minutes = 20 minutes (B)

Total number of balls in Arka Pratap's bag is  $(15+x)$

Given probability

$$\Rightarrow \frac{1}{2} = \frac{10C_1}{(15+x)C_1}$$

$$\frac{1}{2} = \frac{10}{(15+x)}$$

$$20 = 15 + x = x = 5 \text{ green balls}$$

Number of red, orange and brown caps in Shyam's bag is 6, 4 and 5 respectively.

$$\text{Required probability} = \frac{{}^5C_1}{{}^{15}C_1} = \frac{5}{15} = \frac{1}{3} \text{ (C)}$$

Labeled price of a Byke = 40000

$$\text{CP of the Byke} = 40000 \times \frac{80}{100} = 32000$$

$$\text{Marked price of the Byke} = 32000 \times \frac{125}{100} = 40000$$

$$\text{Selling price of the Byke} = 40000 \times \frac{85}{100} = 34000$$

$$\text{Profit percentage} = \frac{(34000-32000)}{32000} \times 100$$

$$= \frac{2000}{32000} \times 100 = 6.25\% \text{ (D)}$$

96. (c)  $120(A) =$  Total distance travelled by Arka Pratap

97. (b) Required time difference = 2 hrs– 1 hr 40 minutes = 20 minutes (B)

98. (d) Number of green balls  $x = 5$

99. (b) Required probability =  $\frac{{}^5C_1}{{}^{15}C_1} = \frac{5}{15} = \frac{1}{3}$  (C)

100. (e) Profit percentage =  $\frac{(34000 - 32000)}{32000} \times 100 = \frac{2000}{32000} \times 100 = 6.25\%$  (D)

101. (a) "The main business .....as loan and earn interest" Indicates that option (a) is the right answer

102. (e) All the options are true about the retail banking

103. (d) The word 'stagnant' means 'motionless', 'standing' Hence, option (d) is the right answer.

104. (e) The words 'steered' & 'intended' are similar to the word 'oriented' Hence, option (e) is the right answer.

105. (b) 'Scenario' is the right usage before the word 'present' Hence, option (b) is the right answer.

106. (c) Both the statements are true according to the passage.

107. (d) "Economic growth share.....of industries and services increases." These lines make the option (a) and (b) true, option (c) is not true Hence, (d) is the right option.

108. (d) The words considerably and 'significantly' are similar to the word 'substantially'. Hence, option (d) is the right choice.

109. (a) The words (fathom, discern, grasp) are similar to the word 'interpret', option (a) is opposite of the given word.

110. (c) The word 'implies' means 'denote', 'mention' Hence, the word 'implies' is the right choice.

111. (d) "Financial planning helps in growth and expansion programme" can be considered as the advantage of the financial planning as it is not given in the passage.

112. (e) It is clearly mentioned in the passage that finance manager must develop the best finance mix or optimum capital structure for the enterprise so as to maximize the long- term market price of the company's shares.

113. (b) It is clearly mentioned in the passage that long term funds are generally contributed by shareholders and debenture holders, medium term by financial institutions and short term by commercial banks.

114. (c) According to the passage, acquisition decision does not come under the scope of financial management as it is not mentioned in the passage.

115. (b) According to the passage, true statement is "Current assets are those assets which are convertible into cash within a year."

**Sol. (116-120):**

Sentence (d) should be the first sentence of the paragraph as it is describing 'ancient Indian education' sentence (a) is describing the gurukul system mentioned in the first sentence hence it should be the second sentence. Sentence (c) is another quality of gurukul system should be the third sentence. sentence (e) is beginning however showing contrast with the gurukul system should be

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the fourth sentence. Sentence (b) is beginning with 'in addition' it means another quality of the gurukul system should be the last sentence. hence the coherent sequence is DACEB.

116. (e) 117. (a) 118. (c) 119. (d) 120. (b)
121. (c) In the given sentence, only 'malady, disqualification, convicted' makes it grammatically as well as contextually correct.
- (A) is incorrect because 'repulsed' does not fit here.
- (B) is incorrect as 'infatuated' means possessed with an intense but short-lived passion or admiration for someone.
- (C) is the correct alternative among the following as 'malady' means a disease or ailment, 'disqualification, convicted' fit here both grammatically and contextually.
- (D) is incorrect as enamoured means be filled with love for which does not fit here contextually
122. (d) In the given sentence, only 'unflinching, by, heralded' make it grammatically as well as contextually correct.
- (A) is incorrect because 'akin' does not fit here.
- (B) is incorrect as 'cognizant' means having knowledge or awareness which does not make any sense here.
- (C) is incorrect as 'from' preposition does not fit here.
- (D) is the correct alternative among the following as 'unflinching, by, heralded' fit here both grammatically and contextually.
123. (a) In the given sentence, only 'tumultuous, emanating, betrays' make it grammatically as well as contextually correct.
- (A) is the correct alternative among the following as 'emanating' means (of a feeling, quality, or sensation) issue or spread out from, 'tumultuous, betrays' fit here both grammatically and contextually.
- (B) is incorrect as kempt means (of a person or a place) maintained in a neat and clean condition; well cared for which does not make any sense here.
- (C) is incorrect as cluttered means cover or fill (something) with an untidy collection of things which does not make any sense here.
- (D) is incorrect as 'shroud' does not fit here contextually
124. (d) In the given sentence, only 'perception, acquired, in' make it grammatically as well as contextually correct.
- (A) is incorrect because vaunt means boast about or praise (something), especially excessively which does not fit here.
- (B) is incorrect as 'vaunt' does not make any sense here.
- (C) is incorrect as 'to' does not fit here.
- (D) is the correct alternative among the following as 'perception, acquired, in' fit here both grammatically and contextually.
125. (b) In the given sentence, only 'rein, abyss, wandering' make it grammatically as well as contextually correct.
- (A) is incorrect as 'briskly' does not make any sense here.
- (B) is the correct alternative among the following as 'abyss' means a deep or seemingly bottomless chasm and 'rein, wandering' fit here both grammatically and contextually.
- (C) is incorrect as palliative means (of a medicine or medical care) relieving pain without dealing with the cause of the condition which does not fit here.
- (D) is incorrect as 'recur' does not make any sense here.
126. (b) the word 'embellished' means 'make something more attractive by the addition of decorative details or features'. 'Simplified' means 'make something simpler or easier to do or understand'; decorated means 'make something look more attractive by adding extra items or images to it'; dilapidated means 'cause something to fall into disrepair or ruin' and tarnished means 'lose or cause to lose lustre, especially as a result of exposure to air or moisture'. Thus, it can be clearly be ascertained that the words embellished and decorative are synonymous to one another; making option (b) the right answer.
127. (c) the word gruesome means disgusting or extremely unpleasant; Sullen means 'bad-tempered and sulky'; exhausting means 'making one feel very tired'; hideous means 'extremely ugly or unpleasant' and insulting means to speak to or treat with disrespect or scornful abuse'. Hence, option (c) is the right answer.
128. (c) the word 'vivacious' means 'lively' or 'bright'; Vibrant and vivacious are synonymous to each other; hence, option (c) is the right answer.
129. (b) the word 'prodigious' means remarkably or impressively great in extent, size or degree' is the synonymous to the word 'phenomenal' which means 'remarkable or exceptional, especially exceptionally good.' Thus, option (b) is the right answer.
130. (c) the word 'articulate' means 'having or showing the ability to speak fluently and coherently', impotent means 'unable to take effective action; helpless or powerless'; eloquent means 'fluent or persuasive in speaking or writing' and the word 'hesitant' means 'tentative, unsure or slow in acting or speaking'; thus, 'eloquent' is the correct answer.
131. (c) the word 'irk' means 'irritate or annoy'. Vex means 'make someone feel annoyed, frustrated, or worried, especially with trivial matters'; pique means 'feel irritated or resentful'; delight means 'please someone greatly and EXASPERATE means 'irritate and frustrate someone intensely'; thus, option (c) is the right answer.
132. (a) the word 'vanity', haughtiness, self-admiration and ostentation are synonyms of one another which means 'excessive pride in or admiration of one's own appearance or achievements'. Humility means 'the quality of having a modest or low view of one's importance'; Thus, making option (a) the correct answer.
133. (b) insipid means 'lacking vigour or interest or excitement; dull'; exhilaration means 'making one feel very happy, animated, or elated; thrilling'; vapid means 'offering nothing that is stimulating or challenging' and prosaic means 'lacking imaginativeness or originality'. Hence, option (b) is the correct answer.



134. (c) Use 'has' for a single entity.  
Use 'evasively' instead of 'evasive'.  
Use only 'was' instead of 'was being'
135. (e) The sentence is error-free and grammatically correct.
136. (a) 137. (b) 138. (d) 139. (b) 140. (b)
141. (c) August 19 is observed as World Photography Day, which aims to inspire photographers across the planet to share a single photo with a simple purpose, to share their world with the world.
142. (b) Recently, the state-owned Kerala Infrastructure Investment Fund Board (KIIFB) debuted its 'masala bond' issue of ₹ 2,150 crore on the London Stock Exchange. KIIFB became the first sub-sovereign entity in India to tap the offshore rupee international bond market.
143. (d) 'Host India made most of home' advantage and grabbed all 7 gold medals in 21st Commonwealth Table Tennis Championships 2019 which concluded at Jawaharlal Nehru Indoor Stadium in Cuttack, Odisha.
144. (e) The world of fixed-income securities can be divided into two main categories. Capital markets consist of securities with maturities of more than 270 days, while the money market comprises all fixed-income instruments that mature in 270 days or fewer.
145. (a) Male is the capital city of Maldives. This country is a small island nation in South Asia, located in the Arabian Sea or the Indian Ocean.
146. (e) D V Sadananda Gowda is the present Minister of Chemicals and Fertilizers in the Government of India.
147. (a) Arinjeeta Dey (Barasat, West Bengal) won a silver medal under the 12 category in the World Youth Cup 2019. The competition was held in Chang, Croatia (from July 1 to July 5, 2019). It was organized by World Karate Federation affiliated to the International Olympic Association. A total of 35 countries participated in this competition.
148. (b) The Damanganga-Pinjal river linking project proposes to divert excess water from reservoirs in the Damanganga basin to Mumbai through the Pinjal dam, built on the Pinjal river in Vaitarna basin.
149. (d) The Shanghai Cooperation Organisation (SCO) 19th summit was held in Bishkek, Kyrgyzstan.
150. (a) The book titled "War over Words: Censorship in India, 1930-1960" has been authored by Devika Sethi, who teaches modern Indian history at IIT-Mandi. The book explores the diverse mechanisms and motivations for censorship and its role in the shaping of the modern Indian republic. It looks at state censorship in India in the transition period from colonial to national rule, when historical actors behaved in unpredictable ways.
151. (b) Kerala government would set up a first-of-its-kind elephant rehabilitation center here at an outlay of Rs 105 crore to take care of jumbos, which were either orphaned or abandoned. The rehab centre would house an elephant museum, mahout training centre, a well-equipped veterinary hospital and crematorium for the pachyderms.
152. (d) Amrabad Tiger Reserve spreads over 2,800 sq.kms in the districts of Mahabubnagar and Nalgonda. Earlier, it was part of 'Nagarjunasagar-Srisaillam Tiger reserve' but post-bifurcation, the northern part of the reserve is vested with Telangana state and renamed as 'Amrabad Tiger Reserve'. The southern portion continues to be 'NSTR' is with Andhra Pradesh.
153. (b) India's state-owned banks had classified ₹ 1.50 trillion worth of loans as "wilful defaults" in 2018-19, with the biggest lender State Bank of India accounting for nearly a third. The State Bank of India saw the highest number of wilful defaults at ₹ 46,158 crore, while Punjab National Bank stood second at ₹ 25,090 crore, with Bank of India at ₹ 9,890 crore.
154. (c) RBI has formed a committee to review regulatory guidelines and supervisory framework applicable to core investment companies (CICs). This committee is headed by Tapan Ray.
155. (b) Kaziranga National Park is a national park in the Golaghat, Karbi Anglong and Nagaon districts of the state of Assam, India. The sanctuary, which hosts two-thirds of the world's great one-horned rhinoceroses, is a World Heritage Site.
156. (c) G-20 Ministerial meeting on Trade and Digital Economy was held from 8 June- 9 June 2019 in Japanese city of Tsukuba, Ibaraki Prefecture, Japan. Piyush Goyal to lead Indian delegation for G20 meet on trade.
157. (a) The surcharge was levied on individuals with a total income more than ₹ 1 crore at the rate of 10%.
158. (c) India's biggest life insurer LIC or Life Insurance Corporation of India is sitting on over two-third of that unclaimed money while the other 22 private life insurers account for the rest, according to a PTI report. LIC has ₹ 10,509 crore of unclaimed insurance money while among private insurers, ICICI Prudential Life Insurance Co. Ltd has ₹ 807 crore, followed by Reliance Nippon Life Insurance (₹ 696 crore), SBI Life Insurance Co (₹ 678 crore) and HDFC Standard Life Insurance (₹ 659 crore), says the report.
159. (b) The National Centre for Agricultural Economics and Policy Research (NCAP), is a premier agricultural economics research institution in India. The Indian Council of Agricultural Research (ICAR) established NCAP in 1991 with a view to strengthen agricultural economics research through integration of economics input in planning, designing, and evaluation of agricultural research programs and enhancing the competence in agricultural policy analysis within the National Agricultural Research System. Its headquarter is located in New Delhi.
160. (b) The walled city of Jaipur, known for its iconic architectural legacy and vibrant culture, made its entry into the UNESCO World Heritage Site list, becoming the second city of the country after Ahmedabad to get the recognition.

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161. (a) Deposits in bank accounts opened under Jan Dhan scheme have crossed the Rs 1 lakh crore mark. As per the latest finance ministry data, the total balance in over ` 36.06 crore Pradhan Mantri Jan Dhan Yojana accounts at ` 1,00,495.94 crores. The PMJDY launched on August 28, 2014.
162. (a) Om Birla is the 17th and current Speaker of the Lok Sabha. He serves as a Member of Parliament for the Kota-Bundi constituency in Rajasthan. Prior to parliament, he was elected thrice to the assembly of Rajasthan. He belongs to the Bharatiya Janata Party.
163. (c) Reserve Bank of India (RBI) has initiated steps to set up wide-based Digital Public Credit Registry (DPCR) to capture loan information of individuals and corporate borrowers. In this regard, RBI has invited expression of interest (EOI) for developing PSC from companies with turnover of over Rs 100 crore in last three years. Setting up of PCR assumes significance amidst rising bad loans in financial system.
164. (a) NIFA, a federal agency within the United States Department of Agriculture (USDA), is part of USDA's Research, Education, and Economics (REE) mission area. The agency administers federal funding to address the agricultural issues impacting people's daily lives and the nation's future.
165. (e) Kawal Tiger Reserve is located at Jannaram mandal of Mancherial District (Old Adilabad district) in Telangana state of India. Govt of India declared Kawal wildlife sanctuary as Tiger Reserve in 2012. The reserve is the oldest sanctuary in the northern Telangana region of the state. It is well known for its abundant flora and fauna. This sanctuary is catchment for the rivers Godavari and Kadam, which flow towards the south of the sanctuary.
166. (c) Balphakram National Park is a national park in the south of Garo Hills in Meghalaya, India, close to the international border with Bangladesh. It was inaugurated in December 1987 and provides habitat for barking deer, Asian golden cat, Bengal tiger, marbled cat, wild water buffalo, red panda and Indian elephant.
167. (d) Hanoi is the capital of Vietnam. It is the easternmost country on the Southeast Asian Indochinese Peninsula. It is the 15th most populous country in the world.
168. (b) On 31 December 2016, at the Prime Minister's address to the nation, a scheme to benefit pregnant women and lactating mothers known as the Pradhan Mantri Matru Vandana Yojana (PMMVY) was announced. The scheme came into effect from 1 January 2017 at all the districts in India. The total amount payable under this scheme is Rs 5000. Cash benefits are provided in three instalments of Rs.1,000, Rs.2,000, and Rs.2,000.
169. (b) Indian men's football team captain Sunil Chhetri and women's footballer Ashalata Devi have bagged top honours at All India Football Federation (AIFF) 2018-19 awards. Chhetri was named as Men's footballer of the year, while Ashalata Devi won the Women's footballer of the year title. The AIFF Player of the Year is an annual association football award presented to the best footballer in India over the previous year. It has been awarded by All India Football Federation since 1992.
170. (b) Russian space agency Roscosmos successfully launched its Soyuz-2.1a carrier rocket on 5 July 2019 with a hydrometeorological satellite and 32 small satellites.
171. (a) The 2019 ICC Cricket World Cup was the 12th Cricket World Cup, a quadrennial One Day International (ODI) cricket tournament contested by men's national teams and organised by the International Cricket Council (ICC). It was hosted between 30 May to 14 July across eleven venues in England and Wales. The 2019 Cricket World Cup Final played at Lord's in London, England, on 14 July 2019. England became Cricket World Cup winners for the first time.
172. (c) The 2019 Wimbledon Championships was a Grand Slam tennis tournament that took place at the All England Lawn Tennis and Croquet Club in Wimbledon, London, United Kingdom. The defending Gentlemen's singles champion Novak Djokovic retained his title, while the defending Ladies' singles champion Angelique Kerber lost in the second round to Lauren Davis. Simona Halep won the Ladies' Singles title.
173. (c) Ajay Singh is associated with boxing. He is currently the president of the Boxing Federation of India (BFI).
174. (d) Arjun Munda is a Cabinet Minister of Government of India. He was also Chief Minister of Indian state of Jharkhand. Khunti is the constituency of Arjun Munda. Khunti Lok Sabha constituency is one of the fourteen Lok Sabha (parliamentary) constituencies in Jharkhand state in Eastern India. This constituency is reserved for the candidates belonging to the Scheduled tribes.
175. (a) The National Cricket Academy located in Chinnaswamy Stadium Bengaluru, Karnataka in India. Academy was established in 2000 as a cricket facility of the Board of Control for Cricket in India (BCCI) for training young cricketers who are identified as having the potential to represent the Indian cricket team.
176. (a) The Reserve Bank of India (RBI) constituted a task force to suggest policy and regulatory interventions required for development of secondary market in corporate loans, including loan transaction platform for stressed assets. The six-member body, headed by Canara Bank chairman T. N. Manoharan, has been set up to review the existing state of the market for loan sale/transfer in India as well as international experience in loan trading.
177. (a) Civil Aviation Training Center (CATC) is located in Iran and have bases in Tehran, Ahwaz, Mashhad, Shiraz, Esfahan and Tabriz.

178. (d) Anshula Kant is the chief financial officer and managing director of the World Bank Group, appointed on 12 July 2019. She is from Roorkee, India.
179. (a) India has signed Rs.200 crore deal with Russia for acquiring Strum Ataka anti-tank missile for its fleet of Mi-35 attack choppers of Indian Air Force (IAF). This deal comes in wake of an IAF's attempt to keep itself battle-ready in situations like post-Balakot aerial strikes.
180. (c) University Grants Commission (UGC) has launched STRIDE scheme recently, aimed at strengthening research culture and innovation in universities and colleges of the country.
181. (b) Dutee Chand has won the gold medal in women's 100-metre sprint at the 30th Summer University Games in Napoli, Italy becoming the first Indian to win do so.
182. (c) Pradhan Mantri Karam Yogi Maandhan (PM-KYM) Scheme All PM Karam Yogi Maan Dhan Scheme beneficiaries must have annual turnover less than Rs. 1.5 crore.
183. (b) Every woman in Self-Help Group (SHG) was eligible for a loan up to Rs. 1 lakh under the MUDRA Scheme.
184. (b) The 2019 BRICS summit was the eleventh annual BRICS summit, an international relations conference to be attended by the heads of state or heads of government of the five member states Brazil, Russia, India, China and South Africa. This summit was held at Brazil.
185. (a) President Ram Nath Kovind launched Solar Charkha Mission under which Government will disburse subsidy of Rs 550 crore to thousands of artisans, generating employment in rural areas. Under this mission, Ministry of Micro Small and Medium Enterprise (MSME) will cover 50 clusters across the country including in the Northeast and each cluster will employ 400 to 2,000 artisans.
186. (e) Standard Chartered Bank will become the first foreign bank to launch operations at International Financial Services Centre (IFSC) located in Gujarat International Finance Tec City (GIFT City).
187. (b) Deutsche Bank has reportedly drawn up plans for a radical restructuring that will involve the creation of a "bad bank" to hold tens of billions of euros of toxic assets and a round of severe cuts to its investment banking operations.
188. (b) The 2023 ICC Cricket World Cup will be the 13th edition of the men's Cricket World Cup, scheduled to be hosted by India from 9 February to 26 March 2023. This will be the first time the competition is held completely in India.
189. (a) The United Nations Development Programme (UNDP) is the United Nations' global development network. It advocates for change and connects countries to knowledge, experience and resources to help people build a better life for themselves. It provides expert advice, training and grants support to developing countries, with increasing emphasis on assistance to the least developed countries.
190. (b) Budget 2019 has proposed to levy tax deduction at source (TDS) of 2 per cent on the cash withdrawal of more than Rs 1 crore from a bank account.

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## Reasoning Ability

**DIRECTION (Qs. 1-5):** Study the following information carefully and answer the questions given below:

Eight girls are sitting around a circular table facing to the center but not necessarily in the same order.

Two girls sit between Quan and Priya (either from left or right). Riya sits immediate to the right of Quan. One girl sits between Riya and Suchi, who faces to Tiya. Quan and Tiya are not immediate neighbors of each other. Wahida sits 2<sup>nd</sup> to the left of Vinny. Three girls sit between Urkush and Vinny.

- Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?  
(a) Quan-Wahida (b) Priya-Urkush  
(c) Suchi-Wahida (d) Vinny-Tiya  
(e) Quan-Priya
- Who among the following sits immediate right of Urkush?  
(a) Wahida (b) Riya  
(c) Tiya (d) Suchi  
(e) Vinny
- The number of girls sit between Quan and Tiya, when counted to right of Quan is same as the number of girls sit between Wahida and \_, when counted to the left of \_?  
(a) Priya (b) Suchi  
(c) Tiya (d) Urkush  
(e) None of these
- Who among the following faces Riya?  
(a) Urkush (b) Vinny  
(c) Priya (d) Wahida  
(e) Quan
- Who among the following sits 3<sup>rd</sup> to the right of Suchi?  
(a) Priya (b) Urkush  
(c) Quan (d) Tiya  
(e) None of these

**DIRECTION (Qs. 6-10):** Study the following information carefully and answer the questions given below

Ten singers are sitting in two parallel rows containing five singers in each row such a way that there is an equal distance between adjacent singers. In the first row, Arjit, Belashende, Chitra, Deepa and Ed Sheeran are seated and all of them are facing north. In the second row, Palak, Quan, Richa Sharma, Shreya Ghosal and Tom are seated and all of them are facing south. Therefore, in the given seating arrangement, each singer seated in a row faces another singer of the other row. Ed Sheeran sits 2<sup>nd</sup> from one of the extreme end of the row. Palak faces the one who sits 2<sup>nd</sup> to the right of Ed Sheeran. Deepa sits 2<sup>nd</sup> to the left of Bella Shende, who does not

sit at the extreme end. Two singers sit between Shreya Ghosal and Quan. Richa Sharma sits immediate left of Shreya Ghosal. Chitra sits next to Bella Shende.

- Who among the following faces Quan?  
(a) Bella Shende (b) Deepa  
(c) Arjit (d) Chitra  
(e) None of these
- Who among the following sits at the extreme end of the row?  
(a) Ed Sheeran (b) Tom  
(c) Chitra (d) Richa Sharma  
(e) Palak
- Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?  
(a) Quan (b) Arjit  
(c) Tom (d) Deepa  
(e) Palak
- Who among the following sits 2<sup>nd</sup> to the right of Palak?  
(a) Shreya Ghosal (b) Richa Sharma  
(c) Quan (d) Tom  
(e) None of these
- What is the position of Arjit with respect to Ed Sheeran?  
(a) 3<sup>rd</sup> to the left (b) Immediate to the left  
(c) 2<sup>nd</sup> to the left (d) 3<sup>rd</sup> to the right  
(e) 2<sup>nd</sup> to the right
- In the word 'COMMUNICATION', how many pairs of the letters have the same number of letters between them in the given word as they have in the English alphabet series?  
(a) Four (b) Two  
(c) One (d) Three  
(e) More than five

**DIRECTION (Qs. 12-15):** In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- Statements:** All Cherry are Toy. No Toy is Mango. Only a few Mango are Dew.  
**Conclusions:** I. No Cherry is Mango  
II. Some Toy can never be Dew.  
(a) If only conclusion II follows.  
(b) If only conclusion I follows.  
(c) If neither conclusion I nor II follows.  
(d) If either conclusion I or II follows.  
(e) If both conclusions I and II follow.

13. **Statements:** No Piano is Ghazal. All Song are Ghazal. Only a few Ghazal are Society.

**Conclusions:** I. Some Society can be Song.

II. Some Piano can be Society.

- (a) If either conclusion I or II follows.
- (b) If only conclusion I follows.
- (c) If neither conclusion I nor II follows.
- (d) If only conclusion II follows.
- (e) If both conclusions I and II follow.

14. **Statements:** No Money is House. Only a few House are Royal. Only a few Royal is Varanda.

**Conclusions:** I. Some House are Varanda.

II. Some Money can never be Royal.

- (a) If only conclusion I follows.
- (b) If neither conclusion I nor II follows.
- (c) If either conclusion I or II follows.
- (d) If only conclusion II follows.
- (e) If both conclusions I and II follow.

15. **Statements:** Some Bat are Godown. All Godown are Table. Only a few Table are Pipe.

**Conclusions:** I. Some Bat are Pipe.

II. Some Godown can be Pipe.

- (a) If only conclusion II follows.
- (b) If neither conclusion I nor II follows.
- (c) If either conclusion I or II follows.
- (d) If only conclusion I follows.
- (e) If both conclusions I and II follow.

**DIRECTION (Qs. 16-20):** Study the following information carefully and answer the questions given below:

Seven women are buying different fruits. Only one women buy fruits between T and S. U is buying fruits immediately before T. Two women buy fruits between T and V. T buy fruits after V. W buys fruits immediately before V. More than three women buy fruits between W and X. Only three women buy fruits between V and Y.

16. How many women buy fruits between S and X?
- (a) One
  - (b) Two
  - (c) Three
  - (d) Four
  - (e) More than four
17. Who among the following buy fruit immediately after?
- (a) V
  - (b) U
  - (c) Y
  - (d) S
  - (e) No one
18. Who among the following buy fruit immediately before Y?
- (a) V
  - (b) U
  - (c) T
  - (d) S
  - (e) No one
19. How many women buy fruits before S?
- (a) One
  - (b) Two
  - (c) Three
  - (d) Four
  - (e) More than four
20. As many as women are buying fruits before V as after \_\_\_\_?
- (a) W
  - (b) U
  - (c) X
  - (d) S
  - (e) Y

**DIRECTION (Qs. 21-23):** Study the following information carefully and answer the questions given below:

Point D is 30m west of point C. Point C is 60m south of point B. Point A is 40m west of point B. Point G is 30m south of point A. Point E is 45 north of point D.

21. If point F is exactly between point B and C, then how far and in which direction is point G with respect to F?
- (a) 15m, North-East
  - (b) 15m, East
  - (c) 10m, North-west
  - (d) 40m, West
  - (e) 20m, North-East
22. Four of the following are alike in a certain way, so form a group. Which of the following does not belong to that group?
- (a) A, E
  - (b) G, B
  - (c) C, A
  - (d) D, B
  - (e) G, E
23. If point H is in 5m east of point G, then what is the distance between point H and Point D?
- (a) 10m
  - (b) 30m
  - (c) 35m
  - (d) 25m
  - (e) 20m

**DIRECTION (Qs. 24-26):** Study the following information carefully and answer the questions given below:

A certain number of students are sitting in the row. All of them are facing towards north. B sits sixth from the right of D. E sits fourth to left of B. Only two students sit between B and A. C sits fourth to the left of D. F sits between D and E. G sits second to the right of F. H is third from any of the end. D is eight from the left end of the row. Six students sit between H and G.

24. How many numbers of students could sit in the row?
- (a) 14
  - (b) 18
  - (c) 23
  - (d) 15
  - (e) 20
25. What is the position of 'H' with respect to B?
- (a) Fourth to the right
  - (b) Fifth to the right
  - (c) Fourth to the left
  - (d) Eighth to the right
  - (e) Sixth to the left
26. If J sits immediate right of G then how many students sit between J and A?
- (a) Five
  - (b) Six
  - (c) Four
  - (d) Three
  - (e) None of these
27. If it is possible to make only one meaningful word with the 1<sup>st</sup>, 4<sup>th</sup>, 7<sup>th</sup> and 11<sup>th</sup> letters of the word 'INTERPRETATION' which would be the second letter of the word from the right end? If more than one such word can be formed give 'Y' as the answer. If no such word can be formed, give 'Z' as your answer.
- (a) Y
  - (b) E
  - (c) M
  - (d) T
  - (e) Z

**DIRECTIONS (Qs. 28-30):** In each of the question, relationships between some elements are shown in the statements. These statements are followed by conclusions numbered I and II. Read the statements and give the answer.



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- (a) If only conclusion I follows.  
 (b) If only conclusion II follows.  
 (c) If either conclusion I or II follows.  
 (d) If neither conclusion I nor II follows.  
 (e) If both conclusions I and II follow.
28. **Statements:**  $P \geq Q \geq R = S > T \leq U < V$   
**Conclusions:** I.  $T < Q$   
 II.  $V > T$
29. **Statements:**  $A \leq C < E = F$ ;  $B \geq E \leq D \geq G$   
**Conclusions:** I.  $B > A$   
 II.  $G < C$
30. **Statements:**  $A > B = D \geq E$ ;  $C \leq B = G \geq H$   
**Conclusions:** I.  $H \leq E$   
 II.  $C < A$

**DIRECTIONS (Qs. 31-35):** Study the following sequence and answer the given questions.

A © 34 Ø ENM ¥ 86 € LDS # 986 QYZ 17 Ø ROG © 2 IB 2 U €

31. Which of the following element is sixth to the left of the fourteenth from the left end of the given arrangement?  
 (a) 6 (b) Ø  
 (c) ¥ (d) M  
 (e) None of these
32. If all the symbols are dropped from the series, which element will be twelfth from the right end?  
 (a) 9 (b) Q  
 (c) R (d) Y  
 (e) None of these
33. How many such numbers are there in the given series which are immediately preceded by a symbol and followed by a letter?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) Four
34. How many such letters are there in the given series which are immediately preceded by number and immediately followed by a symbol?  
 (a) One (b) Two  
 (c) Three (d) More than three  
 (e) None of these
35. Find the odd one out?  
 (a) N64 (b) D86 (c) Y Ø 8  
 (d) R27  
 (e) 8EL

### Numerical Ability

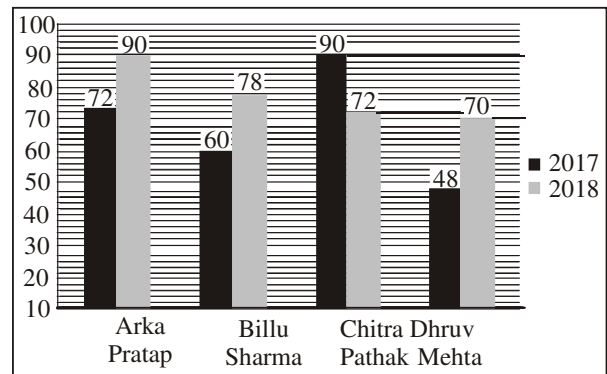
**DIRECTIONS (Qs. 36-40):** What will come in the place of question mark (?) in the following number series:

36. 16, 19, ?, 32, 44, 61  
 (a) 22 (b) 24  
 (c) 25 (d) 23  
 (e) 21
37. 5, 9, 16, 29, ?, 103  
 (a) 54 (b) 60  
 (c) 68 (d) 58  
 (e) 62

38. 2, 6, 30, 20, ?, 42  
 (a) 75 (b) 130  
 (c) 125 (d) 30  
 (e) 100
39. 5400, ?, 180, 45, 15 7.5.  
 (a) 500 (b) 1000  
 (c) 750 (d) 250  
 (e) 900
40. 144, 72, 108, 270, ?, 4252.5  
 (a) 1080 (b) 1215  
 (c) 810 (d) 945  
 (e) 645

**DIRECTIONS (Qs. 41-45):** Study the bar chart given below and answer the following questions.

Bar chart shows the number of movies seen by 4 different persons (Arka Pratap, Billu Sharma, Chitra Pathak, Dhruv Mehta) in 2017 and 2019.



41. Find average number of movie seen by Arka P., Chitra P. & Dhruv M. in 2017.  
 (a) 64 (b) 70  
 (c) 75 (d) 60  
 (e) 56
42. Find ratio of movie seen by Billu S. & Chitra P. together in 2017 to movie seen by Arka P. & Dhruv M. together in 2018.  
 (a) 15 : 16 (b) 5 : 6  
 (c) 1 : 5 (d) 4 : 7  
 (e) 2 : 3
43. Movie seen by Arka Pratap & Dhruv Mehta together in 2017 are what percent more than movie seen by Chitra Pathak in 2018?  
 (a)  $46\frac{2}{3}\%$  (b)  $54\frac{1}{3}\%$   
 (c)  $25\frac{2}{3}\%$  (d)  $33\frac{1}{3}\%$   
 (e)  $66\frac{2}{3}\%$
44. Movie seen by Arka Pratap & Chitra Pathak together in 2017 are how much more or less than movie seen by Billu Sharma & Dhruv Mehta together in 2018?  
 (a) 24 (b) 14  
 (c) 18 (d) 22  
 (e) 28

45. Movie seen by Billu Sharma & Chitra Pathak together in 2018 are what percent of movie seen by Billu Sharma in 2017?
- (a) 100% (b) 120%  
(c) 250% (d) 200%  
(e) 160%

**DIRECTIONS (Qs. 46-55):** What will come in place of (?) question mark in the following questions?

46.  $(36\% \text{ of } 630) \div 1.4 = ?$   
(a) 156 (b) 160  
(c) 164 (d) 162  
(e) 172
47.  $(2945 + 6295) \div ? = 165$   
(a) 52 (b) 44  
(c) 56 (d) 58  
(e) 36
48.  $70\% \text{ of } 100 \times 12 = ? - 25$   
(a) 865 (b) 932  
(c) 864 (d) 862  
(e) None of these
49.  $0.8\% \text{ of } 5550 - 16.4 = ?$   
(a) 26.6 (b) 28  
(c) 29.2 (d) 30.4  
(e) 32
50.  $2992 \div 17 = ? \% \text{ of } 440$   
(a) 25 (b) 40  
(c) 50 (d) 75  
(e) None of these
51.  $14\frac{2}{7}\% \text{ of } 2800 \div \sqrt{256} = (?)^{\frac{1}{2}}$   
(a) 125 (b) 175  
(c) 225 (d) 75  
(e) 625
52.  $\frac{17.28 \div ?}{7.2 \times 0.4} = 50$   
(a) 120 (b) 1.20  
(c) 12 (d) 0.12  
(e) None of these
53.  $\frac{4}{21} \times \frac{5}{6} \times \frac{9}{16} \times ? = 90$   
(a) 1118 (b) 1208  
(c) 1008 (d) 1228  
(e) 1348
54.  $486 \div ? \times 2464 \div 22 = 1008$   
(a) 54 (b) 55  
(c) 52 (d) 53  
(e) 51
55.  $(0.05 \times 6.25) \div 2.5 = ?$   
(a) 12.55 (b) 0.125  
(c) 0.115 (d) 1.25  
(e) None of these

56. Find the total distance covered by boat in each upstream and downstream in 5.5 hours if the speed of boat in still water and speed of current is 31.5 km/h and 4.5 km/h respectively?  
(a) 380 km (b) 341 km  
(c) 315 km (d) 301 km  
(e) 322 km
57. If the difference of the compound interest received in first year and second year at 20% per annum at CI is ₹ 836 then find the sum?  
(a) ₹ 25,000 (b) ₹ 26,000  
(c) ₹ 35,400 (d) ₹ 18,400  
(e) ₹ 20,900
58. Panas alone can type a book in 12 days while Panas and Abdul together can type in 7.5 days. Find the time taken by Rekha alone to do that typing if Rekha takes 3 days more than that of Abdul alone to do that book typing?  
(a) 33 days (b) 30 days  
(c) 23 days (d) 27 days  
(e) 28 days
59. Ratio of income of Akhil to that of Babli is 5:9. If expenditure of Akhil is  $\frac{3}{8}$ th of his income and expenditure of Babli is  $\frac{4}{9}$ th of his income and sum of their saving is ₹ 1170 then find the difference between their income?  
(a) ₹ 946 (b) ₹ 1000  
(c) ₹ 788 (d) ₹ 576  
(e) ₹ 692
60. Ratio of base and perpendicular side of a right-angled triangle is 2:3 and its base is equal to the side of a square having area 144 cm<sup>2</sup>. Find the perimeter of the triangle?  
(a) 53.3 cm (b) 51.63 cm  
(c) 43.48 cm (d) 42.86 cm  
(e) 40 cm

**DIRECTIONS (Qs. 61-65):** In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

- (a) if  $x > y$  (b) if  $x \geq y$   
(c) if  $x < y$  (d) if  $x \leq y$   
(e) if  $x = y$  or no relation can be established between  $x$  and  $y$ .
61. I.  $x^2 - 8x + 15 = 0$   
II.  $y^2 - 13y + 40 = 0$
62. I.  $x^2 - 3x + 2 = 0$   
II.  $3y^2 - 7y + 4 = 0$
63. I.  $2x^2 - 9x + 10 = 0$   
II.  $5y^2 + 17y + 6 = 0$
64. I.  $2x^2 - x - 15 = 0$   
II.  $7y^2 - 19y + 10 = 0$
65. I.  $8x^2 + 2x - 3 = 0$   
II.  $2y^2 + 11y + 12 = 0$
66. Mohit travels half of the distance at the speed of  $x$  km/h and remaining half of the distance at  $3x$  km/h. Find the value of 'x' if the average speed is 36.6 km/h?  
(a) 21.4 (b) 25.6  
(c) 24.4 (d) 23.8  
(e) 20

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67. Raj, Shikha and Dixit invested in a ratio of 7: 8: 5 in a business. They got an annual profit of Rs. 91200. If Raj and Dixit withdrew their amount at the end of 3 months and 7 months respectively. Then find the difference between Raj and Dixit's share of profit?  
 (a) ₹ 8400 (b) ₹ 9,500  
 (c) ₹ 13,500 (d) ₹ 10,500  
 (e) ₹ 8600
68. John sold his bicycle at  $33\frac{1}{3}\%$  profit and another at 100% profit. Find his overall profit percentage if the selling price of both the bicycle is same?  
 (a) 60% (b) 58%  
 (c)  $67\frac{2}{3}\%$  (d) 67%  
 (e)  $56\frac{2}{3}\%$
69. A milk tank contains mixture of milk and water in the ratio 4: 1. When 50% of the mixture is taken out and replaced by 48 liters of water then the ratio of milk to water in the mixture becomes 1: 1. Find initial quantity of mixture.  
 (a) 180 liters (b) 145 liters  
 (c) 170 liters (d) 160 liters  
 (e) 175 liters
70. 4 years ago, ratio of Arka's age to Deepak's age was 2: 3 and ratio of Arka's age 4 years ago to Deepak's age 5 years hence is 4 : 9. Find present age of Arka.  
 (a) 12 years (b) 18 years  
 (c) 14 years (d) 16 years  
 (e) 20 years

### English Language

**DIRECTIONS (Qs. 71-78):** Read the following passage and answer the following questions based on the given passage. Some of the words are highlighted which would help you to answer some of the questions given.

On a cursory look, the connection between climate change and healthcare might seem **far-fetched**. Yet, when you look at it closely, you are bound to realize how climate change is impacting human health and how the continued shift will necessitate a change in healthcare delivery approaches. Climate change is also bringing in its wake a series of devastating changes in the behaviour of our atmosphere. This includes an increase in extreme weather events such as floods, drought and storms, a threat to biodiversity as well as the possible sinking of coastal areas. Some of the major **adverse** effects of climate change on health include direct effects like prolonged exposure to high temperatures, increase in the incidence of vector-borne diseases and effects that result from social inequality, such as malnutrition. Similarly, climate change has also been shown to impact mental health — for instance, exposure to extreme weather events increases the risk of anxiety and depression, disproportionately affecting people who already suffer from pre-existing mental disorders. This is why there is a need to include the impact of climate change while planning our health strategies. While it is not easy to clearly

**extrapolate** the possible health impacts of climate change, WHO estimates that climate change is expected to cause approximately 250,000 additional deaths per year between 2030 and 2050. Of these, 38,000 are likely to occur due to heat exposure in elderly people 48,000 due to diarrhoea, 60,000 due to malaria, and 95,000 due to childhood malnutrition. Areas with weak health infrastructure particularly in developing countries are likely to be the hardest hit. Unfortunately, climate-based healthcare planning ... nowhere in sight when it comes to India. We need to train health personnel on climate change and related health topics and modify the curricula to include climate change at the secondary and tertiary levels. **Contingency** plans should be designed to deploy health personnel in events of outbreaks and extreme weather events. Investment plans should be modified to incorporate potential losses caused due to climate change.

71. What are a series of devastating changes in the behaviour of our atmosphere due to climate change?  
 (a) an increase in extreme weather events such as floods, drought and storms, a threat to biodiversity  
 (b) the possible sinking of coastal areas.  
 (c) climate change has also been shown to impact mental health  
 (d) None of these  
 (e) All (a), (b) and (c)
72. What are the estimates of WHO regarding the adverse effects of climate change between 2030 and 2050?  
 (a) WHO estimates that climate change is expected to cause approximately 250,000 additional deaths per year between 2030 and 2050.  
 (b) Of these, 38,000 deaths are likely to occur due to heat exposure in elderly people  
 (c) Areas with weak health infrastructure particularly in developed countries are likely to be the hardest hit.  
 (d) Only (a) and (b)  
 (e) All the above
73. What can be inferred from this sentence "the connection between climate change and healthcare might seem **far-fetched**?"  
 (a) Climate change is impacting human health.  
 (b) The connections between climate change and healthcare are disproportionate.  
 (c) Climate-based healthcare planning ... nowhere in sight when it comes to India.  
 (d) The impact of climate change while planning our health strategies.  
 (e) All the above
74. Study the following statements  
 (1) Exposure to extreme weather events increases the risk of anxiety and depression  
 (2) India is among the countries most **vulnerable** to climate **change**.  
 (3) Investment plans should be modified to incorporate potential losses caused due to climate change  
 (a) Only (2) (b) Only (1)  
 (c) Only (3) (d) Both (1) and (2)  
 (e) All the above

75. What is/are the meaning of the word 'far-fetched'?
- (a) Unlikely (b) Credible  
(c) Implausible (d) Both (a) and (c)  
(e) None of these
76. Which of the followings is/are the most similar in meaning to 'adverse' as per the given passage?
- (a) Unfavourable (b) Inauspicious  
(c) Pleasant (d) Both (a) and (b)  
(e) Both (b) and (c)
77. Which of the followings is/are the most similar in meaning to 'extrapolate' as per the given passage?
- (a) Judge (b) Infer  
(c) Deduce (d) Both (a) and (b)  
(e) All (a), (b), (c)
78. Which of the followings is/are the most opposite in meaning to 'contingency' as per the given passage?
- (a) Emergency (b) Eventuality  
(c) Exigency (d) Improbability  
(e) None of these

**DIRECTIONS (Qs. 79-85):** Read each sentence to find out if there is any error in it. The error, if any will be in one part of the sentence. The number of that part is the answer if there is no error; the answer is (e).

79. It is consider (a)/ that a man who is not (b)/ healthy can live his life (c)/ in a normal way (d)/ No error. (e)
80. I met (a)/ an old lady (b)/ when I will be (c)/ going to the market. (d)/ No error. (e)
81. This is (a)/ one of the (b)/ most notorious (c) criminal (d)/ No error. (e)
82. The world has come (a)/ around to the view that (b)/ democracy is essential for (c)/ full human development (d)/ no error (e).
83. Mohan is determined (a)/ to be success (b)/ in all fields (c)/ he chooses. (d)/ No error. (e)
84. Democracy cannot be sustained (a) /unless the electorate is well informed, (b) / chooses its leadership wisely, and this leadership is intellectually (c)/empowered by a multi-dimensional intelligence (d)/ no error (e).
85. Not only (a)/ Johan's friends but also (b)/ Johan were(c)/ laughing at the joke he cracked.(d)/No error (e)

**DIRECTIONS (Qs. 86-90):** In each of the following sentences, there is a blank space. Below in each sentence, there are five words out of which one can be used to fill the blank to make the sentence grammatically and coherently correct. Find the most appropriate word that fit into the blank contextually.

86. We started noticing the climatic change and its on human life.
- (a) Affect (b) Effect  
(c) Adverse (d) Loss  
(e) None of these
87. People in India earn their..... by involving themselves in many of these activities.
- (a) Life (b) Lively  
(c) Livelihood (d) Income  
(e) Work
88. The government identified these problems as hindering the economic growth of the country and established policies to ..... them.

- (a) Preventing (b) Spread  
(c) Grow (d) Curb  
(e) None of these
89. Education is what..... us from other living beings on earth.
- (a) Differ (b) Mingle  
(c) Differentiates (d) Prevent  
(e) None of these
90. It is a doorway to success which requires hard work, dedication and more after which can you open it .....
- (a) Successful  
(b) Successfully  
(c) Difficulty  
(d) Decoratively  
(e) None of these

**DIRECTIONS (Qs. 91-95):** Given sentences are not in their exact position. Rearrange them to make a coherent paragraph and then answer the questions given below.

- A. It plays a prominent role in all-around development of individual as well as society.
- B. Education plays a key role in creating patriotic, disciplined and productive manpower.
- C. Educated manpower constitutes precious assets as well as agents for advancing the nation.
- D. A large number of books have been written on the importance of education.
- E. Education is fundamental to human progress.
91. Which of the following should be the **FOURTH** sentence after the rearrangement?
- (a) A (b) B  
(c) C (d) D  
(e) E
92. Which of the following should be the **SECOND** sentence after the rearrangement?
- (a) A (b) B  
(c) C (d) D  
(e) E
93. Which of the following should be the **THIRD** sentence after the rearrangement?
- (a) A (b) B  
(c) C (d) D  
(e) E
94. Which of the following should be the **FIRST** sentence after the rearrangement?
- (a) A (b) B  
(c) C (d) D  
(e) E
95. Which of the following should be the **FIFTH** sentence after the rearrangement?
- (a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Qs. 96-100):** In the following questions, a sentence is divided into four parts consisting of a highlighted word in each part. Choose the option reflecting the word which is either misspelt or grammatically incorrect. If all the highlighted words are correct, choose option (e) i.e. "all are correct" as your answer choice.

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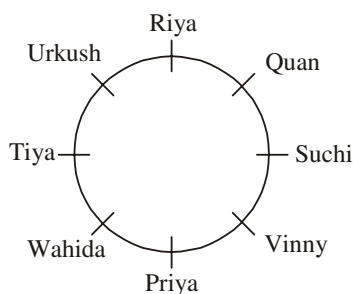
96. The **average** age for a child to be **approapriate** to work is **considered** fifteen years and **more**.  
 (a) Average (b) Considered  
 (c) Approapriate (d) More  
 (e) All are correct
97. If we wish to **iradicate** child labour, we need to **formulate** some very **effective** solutions which will save our **children**.  
 (a) Iradicate (b) Formulate  
 (c) Effective (d) Children  
 (e) All are correct
98. In a **democratic** age, when the duty of forming clear **opinions** on practical and social problems **devolves** on all of us, the study of history should be regarded as **emperative**.  
 (a) Democratic (b) Opinions  
 (c) Devolves (d) Emperative  
 (e) All are correct
99. I could not **wear** to see her punished. It wasn't the first time she had seen a **bear** track, but it was the **first** time she had **scene** one that fresh.  
 (a) Wear (b) Bear  
 (c) First (d) Scene  
 (e) Both (a) and (d)
100. It **seemed** very doubtful **whether** he would **accomplice** his **desire**.  
 (a) Seemed (b) Whether  
 (c) Accomplice (d) Desire  
 (e) All are correct

ANSW ER KEY

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1  | (a) | 11 | (e) | 21 | (d) | 31 | (d) | 41 | (b) | 51 | (e) | 61 | (d) | 71 | (e) | 81 | (d) | 91  | (b) |
| 2  | (c) | 12 | (b) | 22 | (c) | 32 | (d) | 42 | (a) | 52 | (d) | 62 | (e) | 72 | (d) | 82 | (e) | 92  | (a) |
| 3  | (b) | 13 | (e) | 23 | (b) | 33 | (b) | 43 | (e) | 53 | (c) | 63 | (a) | 73 | (b) | 83 | (b) | 93  | (d) |
| 4  | (c) | 14 | (b) | 24 | (e) | 34 | (a) | 44 | (b) | 54 | (a) | 64 | (c) | 74 | (e) | 84 | (e) | 94  | (e) |
| 5  | (b) | 15 | (a) | 25 | (a) | 35 | (e) | 45 | (c) | 55 | (b) | 65 | (a) | 75 | (d) | 85 | (c) | 95  | (c) |
| 6  | (c) | 16 | (c) | 26 | (c) | 36 | (b) | 46 | (d) | 56 | (b) | 66 | (c) | 76 | (d) | 86 | (b) | 96  | (c) |
| 7  | (b) | 17 | (e) | 27 | (a) | 37 | (a) | 47 | (c) | 57 | (e) | 67 | (a) | 77 | (e) | 87 | (c) | 97  | (a) |
| 8  | (e) | 18 | (c) | 28 | (e) | 38 | (b) | 48 | (a) | 58 | (c) | 68 | (a) | 78 | (d) | 88 | (d) | 98  | (e) |
| 9  | (a) | 19 | (b) | 29 | (a) | 39 | (e) | 49 | (b) | 59 | (d) | 69 | (d) | 79 | (a) | 89 | (c) | 99  | (c) |
| 10 | (d) | 20 | (e) | 30 | (b) | 40 | (d) | 50 | (b) | 60 | (b) | 70 | (d) | 80 | (c) | 90 | (b) | 100 | (c) |

## ANSWERS & EXPLANATIONS

Sol. (1-5):



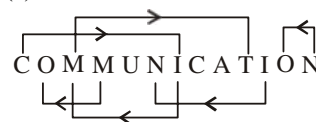
1. (a) 2. (c) 3. (b) 4. (c) 5. (b)

Sol. (6-10):

Tom Shreya Ghosal Richa Sharma Palak Quan

Deepa ED Sheeran Bela Shende Chitra Arjit

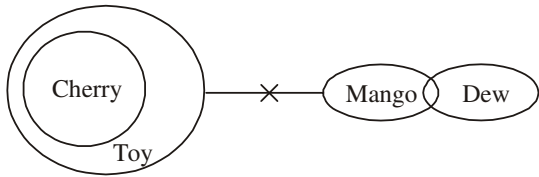
6. (c) 7. (b) 8. (e) 9. (a) 10. (d)  
 11. (e)



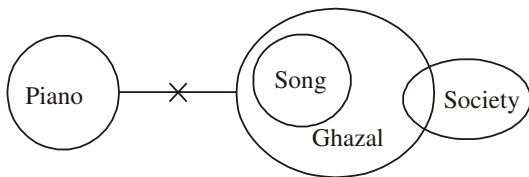


Sol. (12-15):

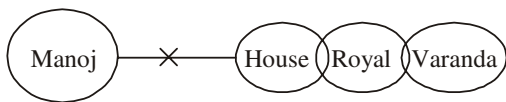
12. (b)



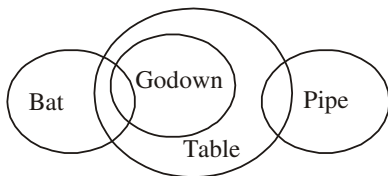
13. (e)



14. (b)



15. (a)



Sol. (16-20):

| Women |
|-------|
| W     |
| V     |
| S     |
| U     |
| T     |
| Y     |
| X     |

16. (c) 17. (e) 18. (c) 19. (b) 20. (e)

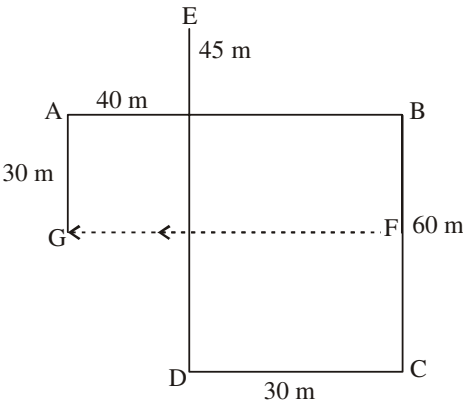
Sol. (24-26)



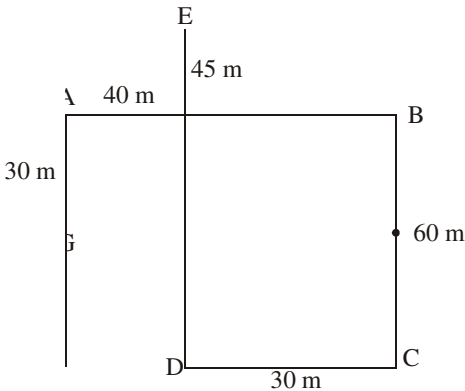
24. (e) 25. (a) 26. (c)

Sol. (21-23):

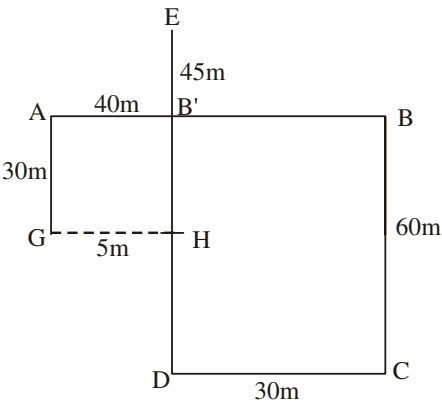
21. (d) Point G is in west and 40 m far with respect to F.



22. (c) All except (c) is in north-east direction with respect to I<sup>st</sup> element



23. (b) Take a point B', as BC = 60 m. So, B'D = 60 m  
We have AG = 30 m  
So, B'H = 30 m  
Hence HD = B'D - B'H = 60 - 30 = 30 m



**SBI Clerk (Junior Associates) Prelim Solved Paper-2019**

- $$\text{CI in two years} = 44\% \text{ of } 100x = 44x$$

- CI in 2<sup>nd</sup> year =  $44x - 20x = ₹ 24x$   
 ATQ  
 $24x - 20x = 836$   
 $x = 209$   
 Required sum = ₹ 20,900
58. (c) Let total work be 60 units (LCM of 12 and 7.5)  
 Efficiency of Panas = 5 units/ day  
 Efficiency of Panas and Abdul together = 8 units/ day  
 Efficiency of Abdul = 3 units/ day  
 Time taken by Abdul alone to do that Book Typing = 20 days  
 Time taken by Rekha alone = 23 days
59. (d) Let income of Akhil and Babli be ₹ 5x and ₹ 9x respectively  
 Expenditure of Akhil = ₹  $\frac{15}{8}x$   
 Saving of Akhil = ₹  $\frac{25}{8}x$   
 Expenditure of Babli = ₹ 4x  
 Saving of Babli = ₹ 5x  
 ATQ  
 $\frac{65}{8}x = 1170$   
 $x = 144$   
 Required difference =  $144 \times 9 - 144 \times 5$   
 $= 1296 - 720 = ₹ 576$
60. (b) Side of the square =  $14\sqrt{4} = 12$  cm  
 Perpendicular side of the triangle = 18 cm  
 Hypotenuse of the triangle  
 $= \sqrt{12^2 + 18^2} = \sqrt{144 + 324} = 21.63$  cm.  
 Perimeter of the triangle =  $12 + 18 + 21.63 = 51.63$  cm
61. (d) I.  $x^2 - 8x + 15 = 0$   
 $\Rightarrow x^2 - 5x - 3x + 15 = 0$   
 $\Rightarrow x(x - 5) - 3(x - 5) = 0$   
 $\Rightarrow (x - 3)(x - 5) = 0$   
 $\therefore x = 3$  or  $5$
- II.  $y^2 - 13y + 40 = 0$   
 $y^2 - 5y - 8y + 40 = 0$   
 $y(y - 5) - 8(y - 5) = 0$   
 $y = 5, 8$   
 Hence,  $x \leq y$
62. (e) I.  $x^2 - 3x + 2 = 0$   
 $\Rightarrow x^2 - 2x - x + 2 = 0$   
 $\Rightarrow x(x - 2) - 1(x - 2) = 0$   
 $\Rightarrow (x - 1)(x - 2) = 0$   
 $\therefore x = 1$  or  $2$
- II.  $3x^2 - 7x + 4 = 0$   
 $\Rightarrow 3x^2 - 4x - 3x + 4 = 0$   
 $\Rightarrow (3x - 4)(x - 1) = 0$   
 $\Rightarrow x = \frac{4}{3}$  or  $1$   
 Hence, no relation can be establish.
63. (a) I.  $2x^2 - 9x + 10 = 0$   
 $\Rightarrow 2x^2 - 4x - 5x + 10 = 0$   
 $\Rightarrow (2x - 5)(x - 2) = 0$   
 $\Rightarrow x = \frac{5}{2}$  or  $2$
- II.  $5y^2 + 17y + 6 = 0$   
 $5y^2 + 15y + 2y + 6 = 0$   
 $5y(y + 3) + 2(y + 3) = 0$   
 $y = -3, -\frac{2}{5}$   
 Hence,  $x > y$
64. (c) I.  $2x^2 - x - 15 = 0$   
 $2x^2 - 6x + 5x - 15 = 0$   
 $2x(x - 3) + 5(x - 3) = 0$   
 $x = 3, -5/2$
- II.  $7y^2 - 19y + 10 = 0$   
 $7y^2 - 14y - 5y + 10 = 0$   
 $7y(y - 2) - 5(y - 2) = 0$   
 $y = 2, \frac{5}{7}$   
 Hence, No relation can establish.
65. (a) I.  $8x^2 + 2x - 3 = 0$   
 $8x^2 + 6x - 4x - 3 = 0$   
 $2x(4x + 3) - 1(4x + 3) = 0$   
 $x = \frac{-3}{4}, \frac{1}{2}$
- II.  $2y^2 + 11y + 12 = 0$   
 $2y^2 + 8y + 3y + 12 = 0$   
 $2y(y + 4) + 3(y + 4) = 0$   
 $y = -4, -\frac{3}{2}$   
 Hence,  $x > y$
66. (c) Let the distance be D km  
 ATQ  
 $\frac{D}{\frac{D}{2x} + \frac{D}{6x}} = 36.6$   
 $x = 24.4$
67. (a) Ratio of their profit sharing  
 Raj : Shikha : Dixit =  $7 \times 3 : 8 \times 12 : 5 \times 7$   
 $= 21 : 96 : 35$   
 Annual profit = 91200  
 Difference b/w Raj and Dixit's share of profit

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SBI Clerk (Junior Associates) Prelim Solved Paper-2019

$$\frac{14}{152} \times 91200$$

$$= ₹ 8400$$

68. (a) Let SP of both bicycle  
ATQ,

|    |           |                                    |           |        |
|----|-----------|------------------------------------|-----------|--------|
|    | bicycle 1 |                                    | bicycle 2 |        |
| CP | $6x$      | $\xrightarrow{\times \frac{3}{4}}$ | $4x$      | $= 10$ |
| SP | $8x$      | $\xrightarrow{\times \frac{1}{2}}$ | $8x$      | $= 16$ |

$$\text{Profit \%} = \frac{16x - 10x}{10x} \times 100 = 60\%$$

69. (d) Let initial quantity of milk and water in the mixture be '40x liters' and '10x liters' respectively.

ATQ,

$$\frac{\left( \frac{40x \times \frac{1}{2}}{2} \right)}{10x \times \frac{1}{2} + 24} = \frac{1}{1} \Rightarrow \frac{20x}{5x + 48} = \frac{1}{1}$$

$$20x = 5x + 48$$

$$15x = 48$$

$$x = 3.2$$

$$\text{So, required quantity} = 40x + 10x$$

$$= 50x = 160 \text{ liters}$$

70. (d) Let age of Arka and Deepak 4 years ago be '2x years' and '3x years' respectively.

ATQ,

$$\frac{2x}{3x + 4 + 5} = \frac{4}{9}$$

$$\frac{2x}{3x + 9} = \frac{4}{9}$$

$$= 12x + 36$$

$$6x = 36$$

$$x = 6$$

$$\text{So, present age of Arka} = 2x + 4 = 16 \text{ years}$$

71. (e) All (a), (b), (c) are true as per the passage.  
72. (d) Only (a) and (b) are true "particularly in developed countries are likely to be the hardest hit." According to the passage 'developing countries are likely to be the hardest hit'.  
73. (b) "The connection between climate change and healthcare might seem **far-fetched**" **far-fetched** means health facilities are not enough to deal with the climate change.

74. (e) All the above (all the options are given in the passage)  
75. (d) Both (a) and (c) the word 'far-fetched' means 'unlikely' and 'implausible' but the word 'credible' is opposite in meaning.  
76. (d) Both (a) and (b) the word 'adverse' means 'unfavourable' and 'inauspicious' but the word 'pleasant' is opposite in meaning.  
77. (e) All the given three words are similar to the word 'extrapolate'.  
78. (d) The words emergency, eventually, and exigency are synonymous to the word 'contingency' only the word 'improbability' is opposite in meaning.  
79. (a) There is an error in part (a) of the sentence in place of "consider" we will use "considered".  
80. (c) There is an error in part (c) of the sentence. In place of "will be" we will use "was" because the events of the sentences are in past.  
81. (d) The word 'criminal' should be replaced with 'criminals'.  
82. (e) There is no error in the sentence.  
83. (b) There is an error in part (b) of the sentence. Use "to succeed" in place of "to be success" because after "determined" we use "to infinitive".  
84. (e) There is no error in the sentence.  
85. (c) Replace 'were' with 'was' as we are considering only second subject which is singular in number.  
86. (b) 'Its **effects**' sound correct.  
87. (c) Earn their **livelihood**  
88. (d) The country and established policies to **curb** them  
89. (c) Education is what **differentiates** us from other living beings on earth.  
90. (b) Dedication and more after which can you open it **successfully**.  
91. (b) The correct sequence for the given sentences is **EADBC**.  
92. (a) The correct sequence for the given sentences is **EADBC**.  
93. (d) The correct sequence for the given sentences is **EADBC**.  
94. (e) The correct sequence for the given sentences is **EADBC**.  
95. (c) The correct sequence for the given sentences is **EADBC**.  
96. (c) "Appropriate" is the correct spelling.  
97. (a) "Eradicate" is the correct spelling.  
98. (e) "Imperative" is the correct spelling.  
99. (c) "Bear and seen" should be used.  
100. (c) "Accomplish" is the right word.

# SBI Clerk (Junior Associates) Mains Solved Paper-2018

Held on 05 August 2018  
(Based on Memory)

Time : 190 minutes

Max. Marks : 200

## Reasoning Ability & Computer Aptitude

**DIRECTIONS (Qs. 1-5):** Study the information given below and answer the questions based on it.

8-person A, B, C, D, E, F, G and H are sitting around a circle facing the centre and having discussion to go on a trip during different months viz, January, march, may, June, August, October, November and December respectively but not in the same order. 3 of them want to go to hill stations, 3 to historical places and 2 to industrial city. D sits second to the left of F, who wishes to go to a hill station during a month which has 30 days. Exactly one person sit between G and H and G, H wants to go to an historical place in the month of June and August respectively. H, who is between D and F and the one who is interested in going to industrial city sit diagonally opposite. D and B neither wish to go to historical places nor in the month of October and December. The one who goes in June sits diagonally opposite to the one who wants to go in the month of October. D is sitting opposite to the person who visits historical places. E is interested in going in the month of May. G is to the third to the left of F. B, who is immediate left of G, goes to hill station. Person going to visit industrial city goes in October.

- Who goes to Industrial city?  
(a) A (b) E  
(c) C (d) Cannot be determined  
(e) None of these.
- If C goes in October than in which month will A go?  
(a) December (b) January  
(c) March (d) Either A or B  
(e) None of these
- Which of the following is definitely true?  
(a) E goes to historical place in may  
(b) B goes to hill station in January  
(c) F goes to hill station in November  
(d) D goes to hill station in March  
(e) None of these
- Which of the combination is correct?  
(a) D- march-historical place  
(b) B-January-hill station  
(c) D-march-hill station  
(d) B-march-hill station  
(e) None of these

- Which of the following go to the industrial city?  
(a) C and E (b) C and A  
(c) A and E (d) Either A or B  
(e) None of these

**DIRECTIONS (Qs. 6-10):** Study the following information and answer the questions.

Eight friends Hemant, Charu, Nitesh, Gaurav, Bharat, Pravin, Deepak and Isha are sitting in a row facing north. All of them like different months, viz January, February, March, April, May, June, July and August but not necessarily in the same order.

- There is only one person between Nitesh and the one who likes July.
  - Deepak is neither an immediate neighbour of Nitesh nor he likes April.
  - Hemant sits fourth to the left of the one who likes July but he does not like February.
  - The person who likes June is the third to the right of the one who likes April and sits on the immediate right of Hemant.
  - The one who likes April sits at one of the extreme ends of the row. Charu does not like April.
  - Pravin is an immediate neighbour of both Deepak and Nitesh.
  - Isha sits at one of the extreme ends of the row but she does not like April.
  - The one who likes August sits second to the right of the one who likes March.
  - The one who likes June and February are immediate neighbours.
  - Bharat sits third to left of Nitesh and likes May.
  - There is only one person between the persons who like May and June.
- How many persons are there between Gaurav and Charu?  
(a) Two (b) Three  
(c) Four (d) Five  
(e) None of these
  - Who among the following is an immediate neighbour of the persons who like June and May?  
(a) Deepak (b) Gaurav  
(c) Hemant (d) Bharat  
(e) None of these



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SBI Clerk (Junior Associates) Mains Solved Paper-2018

8. Who among the following likes March?  
 (a) Nitesh (b) Pravin  
 (c) Deepak (d) Bharat  
 (e) None of these
9. Who among the following sits on the immediate left of the one who likes August?  
 (a) The one who likes March  
 (b) Either Pravin or Nitesh  
 (c) The one who likes July  
 (d) The one who likes June  
 (e) None of these
10. Who among the following sits third to the right of the one who likes January?  
 (a) Nitesh (b) Gaurav  
 (c) Deepak (d) Pravin  
 (e) None of these

**DIRECTIONS (Qs. 11-15):** Study the information given below and answer the questions based on it.

Eight persons M, N, O, P, Q, R, S and T are staying on an eight storey building. Lowermost floor is numbered 1 and topmost floor is numbered 8.

**Note:** Their ages are in increasing order from bottom to top floor. The one who lives on even numbered floor his/her age is an even number and the one who lives on odd numbered floor his/her age is an odd number.

Q is 19 years old and two persons are staying between Q and the one who is 30 years old. R is the youngest person in the group and the one who is the eldest person is 46 years old. M is elder to Q and one person is between M and N. S is 35 years old. The difference of age between M and P is 10 years. Two persons are between T and P. The number of person lives above S is same as below P. One person is 16 years old. T is not 29 years old. The one who is youngest is 11 years old. (No two persons have the same age)

11. What is the age of T?  
 (a) 29 years (b) 25 years  
 (c) 27 years (d) 31 years  
 (e) 30 years
12. Who among the following is the eldest person?  
 (a) O (b) S  
 (c) T (d) R  
 (e) M
13. Which of the following combination is correct?  
 (a) O-6th floor  
 (b) T-28 years old  
 (c) R-3rd floor  
 (d) N-6th floor  
 (e) P-18 years old
14. How many persons live between N and Q?  
 (a) 0 (b) 1  
 (c) 2 (d) 3  
 (e) 4

15. Who among the following doesn't belong to the group?  
 (a) O (b) P  
 (c) T (d) N  
 (e) M

**DIRECTIONS (Qs. 16-20):** Study the information given below and answer the questions based on it.

Eight people M, N, O, P, Q, R, S and T are sitting around a circular table. Four of them face towards the center and the rest face outside the center. Each of them has different choice of mobile brands- Apple, Sony, Nokia, HTC, LG, LYF, XOLO and VIVO, but not necessarily in the same order. There are three male members and five female members amongst them.

- Each male is sitting between two female members.
  - The One who likes HTC is sitting third to the right of O, who is facing the center.
  - P is facing the same direction as O and also he is an immediate neighbor of both M and the one who likes LYF.
  - T and N face in the same direction i.e., towards the center.
  - P is sitting exactly opposite to N, who likes Apple.
  - Both Q and R are immediate neighbors of N and neither of them likes LYF.
  - T is an immediate neighbor of Q and she likes Nokia.
  - O is a XOLO player and she is sitting third to the left of the one who likes Sony.
  - P is the only male who is facing inside.
  - The One who likes Sony is sitting second to the right of the one who likes VIVO.
16. Who is sitting second to the left of the one who likes HTC?  
 (a) Q  
 (b) S  
 (c) The one who likes Sony  
 (d) The one who likes LYF  
 (e) Both (a) and (c)
17. Four of the five are alike in a certain way. Find the odd one out?  
 (a) MRQ (b) QSR  
 (c) TOP (d) PQM  
 (e) OTN
18. Who likes LG?  
 (a) M (b) N  
 (c) O (d) P  
 (e) Q
19. Which of the following combination is correct?  
 (a) M-Nokia (b) S-LG  
 (c) R-VIVO (d) Q-LYF  
 (e) T-XOLO

20. Who among the following is second to the left of the one who likes XOLO?
- (a) M (b) O  
(c) P (d) Q  
(e) N

**DIRECTIONS (Qs. 21-25):** Read the following information carefully and answer the given questions.

Seven players A, B, C, D, E, F and G are playing for different International team – India, Pakistan, Australia, Sri Lanka, South Africa, New Zealand and West Indies. But not necessarily in the same order. They are specialized in different forms, viz. All Rounder, Batsman and Bowler. At least two players are specialized in the same forms. F is playing for Sri Lanka and he is not an All-Rounder. D is playing from Australia and he is an All-Rounder. The one who is playing for New Zealand is not a bowler. A is not playing for West Indies and he is not an All-Rounder. E is playing for Pakistan but he is not an All-Rounder. G is playing for South Africa and he is a batsman along with only B. No one playing for India and West Indies. as is an All-Rounder.

21. Which of the following represent the group of players that are bowlers?
- (a) C, F, G (b) A, F, G  
(c) A, F, E (d) A, B, D  
(e) None of these
22. In which form does 'C' Specialized?
- (a) All-Rounder (b) Bowler  
(c) Batsman (d) Can't be determined  
(e) None of these
23. 'B' plays for which International team?
- (a) New Zealand (b) Srilanka  
(c) West Indies (d) Australia  
(e) India
24. Which of the following combination is true?
- (a) A – West Indies – Bowler  
(b) B – New Zealand – Batsman  
(c) C – New Zealand – Bowler  
(d) E – Pakistan – Batsman  
(e) None of these
25. Who among the following plays for New Zealand?
- (a) D (b) C  
(c) B (d) A  
(e) None of these

**DIRECTIONS (Qs. 26-30):** Study the following information arrangement carefully and answer the questions.

'alarm forest cuddle moving' is written as '%G3 !C3 #X2 @U3',  
'sight fire making criticism' is written as '#P4 @G2 %R2 !N3',  
'raising centre recent alarm' is written as '@K3 %V3 #X2 !P3'  
'strike arm ignoring slight' is written as '!K4 %P3 @G3 #L1'

26. What is the code for 'Graham'?
- (a) !X3 (b) @X3  
(c) #Y3 (d) #X3  
(e) None of these
27. What is the code for 'Firing not done'?
- (a) @G3 !E1 %K2 (b) !G3 %E1 @K2  
(c) %G3 @E1 !K2 (d) @H3 !F1 %L4  
(e) None of these
28. What is the code for 'Jingoism'?
- (a) @M4 (b) @K4  
(c) #K4 (d) #M4  
(e) None of these
29. '%E5' could be a code for which of the following?
- (a) Forget (b) Ultraviolet  
(c) Letter (d) Ultracrepidarian  
(e) None of these
30. 'Sweet Raining' could be a code for which of the following?
- (a) %T2 !P3 (b) !T2 %P3  
(c) %T3 !P2 (d) %T4 !P2  
(e) None of these

**DIRECTIONS (Qs. 31-35):** In each question below is given a group of letters followed by four combinations of digits/symbols numbered (a), (b), (c) and (d). You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e) i.e. 'None of the above', as the answer.

| Letter       | M | K | H | R | B | N | E | T | D | J | I | A | Q | F  | P |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Digit/symbol | 8 | 1 | © | 2 | # | £ | 7 | 9 | @ | 6 | % | 3 | 4 | \$ | * |

**Conditions:**

- If the first and the last letters are consonants, both are to be coded as the code for the first letter.
  - If the first letter is a consonant and the last letter is as vowel their codes are to be interchanged.
  - If both the first and the last letters are vowels, both are to be coded as the last letter.
31. TABDRE
- (a) 93#2@7 (b) 73#@29  
(c) 93#@27 (d) 73#@27  
(e) None of the above
32. QHFKAN
- (a) 4©\$134 (b) 4©\$138  
(c) £©\$134 (d) 4©\$431  
(e) None of the above

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33. IAJEPI  
 (a) \*%367\$ (b) %367%\*  
 (c) %367\*% (d) 6%367\*  
 (e) None of the above
34. NR,JTBP  
 (a) £26#9@ (b) £%269£  
 (c) £962#© (d) £269#£  
 (e) None of the above
35. JATHQE  
 (a) 739©46 (b) 639©47  
 (c) 639©46 (d) 739©47  
 (e) None of the above

**DIRECTIONS (Qs. 36-40):** Study the following information carefully and answer the questions given below:

Ten persons are sitting in two parallel rows containing five persons each in such a way that there is an equal distance between adjacent persons. In the first row, A, B, C, D and E are seated and all of them are facing south. In the 2nd row, P, Q, R, S and T are seated and all of them are facing north. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row. S sits third to the left of P. A faces an immediate neighbor of S. C sits second to the right of A. Only one person sits between B and D. Q and T are immediate neighbours. T does not face A and B.

36. How many persons are seated between B and E?  
 (a) None  
 (b) One  
 (c) Two  
 (d) Three  
 (e) Can't be determined
37. Who amongst the following faces D?  
 (a) P (b) Q  
 (c) R (d) S  
 (e) T
38. Which of the following is true regarding Q?  
 (a) P and R are immediate neighbour of Q.  
 (b) Q sits at one of the extreme ends of the line.  
 (c) E is an immediate neighbor of the person who is facing Q.  
 (d) S sits on the immediate left of Q.  
 (e) None of these
39. Who amongst the following are sitting exactly in the middle of the rows?  
 (a) A and T (b) D and S  
 (c) D and P (d) P and C  
 (e) A and Q

40. Four of the following five are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

- (a) C (b) D  
 (c) R (d) E  
 (e) P

**DIRECTIONS (Qs. 41-45):** Study the given information and answer the questions:

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and its rearrangement.

**Input:** what 42 has 54 also 18 not 12 gone 26

**Step I:** 12 what 42 has 54 18 not gone 26 also

**Step II:** 18 12 what 42 has 54 not 26 also gone

**Step III:** 26 18 12 what 42 54 not also gone has

**Step IV:** 42 26 18 12 what 54 also gone has not

**Step V:** 54 42 26 18 12 also gone has not what

**Step V** is the last step of the above arrangement as the intended arrangement is obtained.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**Input: fly 92 high 48 bird 74 tree 62 green 56**

41. Which element is exactly between '92' and '74' in Step III?  
 (a) Green (b) Bird  
 (c) Tree (d) High  
 (e) None of these
42. What is the difference between the number which is fourth from left end in Step III and the number which is second from the right end in Step I?  
 (a) 23 (b) 24  
 (c) 29 (d) 25  
 (e) 36
43. How many steps are required to complete the above arrangements?  
 (a) Four (b) Seven  
 (c) Six (d) Five  
 (e) None of these
44. In which step the elements "48 92 tree" found in the same order?  
 (a) Step IV (b) Step V  
 (c) Step II (d) Step I  
 (e) Step III
45. In step V, '92' is related to 'tree' and '74' is related to 'high'. In the same way '62' is related to?  
 (a) High (b) Green  
 (c) Bird (d) 56  
 (e) 48

**DIRECTIONS (Qs. 46 and 47):** Each question below is followed by two assumptions numbered I and II. You have to decide which of the assumption is implicit in the statement.

Give answer

- (a) If only assumption I is implicit
- (b) If only assumption II is implicit
- (c) If either I or II is implicit
- (d) If neither I nor II is implicit
- (e) If both I and II are implicit

46. **Statement:** Government should deploy army to rehabilitate the people displaced due to earthquake.

**Assumptions**

- I. Army can be used for purposes other than war also.
- II. Only army can rehabilitate the displaced victims of earthquake.

47. **Statement:** A warning in a train compartment- "To stop train, pull chain. Penalty for improper use ` 500."

**Assumptions**

- I. Some people may misuse the chain.
- II. On certain occasion, people may want to stop a running train.

**DIRECTIONS (Qs. 48 and 49):** Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is 'strong'.

Give answer:

- (a) if only argument I is strong.
- (b) if only argument II is strong.
- (c) if either I or II is strong.
- (d) if neither I nor II is strong.
- (e) if both I and II are strong.

48. **Statement:** Should all the electricity state boards be privatized in India?

**Arguments**

- I. No, this will increase the grievances of the people.
- II. Yes, it will check the growing menace of power theft which has resulted in annual pilferage of a huge amount.

49. **Statement:** Should the private companies be allowed to operate passenger train services in India?

**Arguments**

- I. Yes, this will improve the quality of service in Indian Railways as it will have to face severe competition.
- II. No, the private companies may not agree to operate in the non-profitable sectors.

**DIRECTION (Q. 50):** In the question below, are given a statement followed by two courses of action numbered I and II. You have to decide which of the suggested courses of action logically follow(s) for pursuing.

Give answer:

- (a) if only I follows.
- (b) if only II follows.
- (c) if either I or II follows.
- (d) if neither I nor II follows.
- (e) if both I and II follow.

50. **Statement:** A number of school children in the local schools have fallen ill after the consumption of their subsidized tiffin provided by the school authority.

**Course of action**

- I. The tiffin facility of all schools should be discontinued with immediate effect.
- II. The government should implement a system to certify the quality of tiffin provided by the school.

### Quantitative Aptitude

**DIRECTIONS (Qs. 51-55):** Study the given table carefully to answer the following questions.

| Field Name | Shape         | Side (in m) | Base (in m) | Height (in m) | Radius (in m) | Cost of flooring<br>(in ` Persq meter) | Cost of Fencing<br>(in ` Persq m) |
|------------|---------------|-------------|-------------|---------------|---------------|----------------------------------------|-----------------------------------|
| A          | Triangle      |             | 16          | 12            |               | 50                                     | 20                                |
| B          | Rectangle     | 10 × 20     |             |               |               | 30                                     | 15                                |
| C          | Square        | 15          |             |               |               | 40                                     | 18                                |
| D          | Parallelogram |             | 20          | 12            |               | 60                                     | 25                                |
| E          | Circle        |             |             |               | 10            | 45                                     | 22                                |

51. What is the cost flooring of A

- (a) ` 4000
- (b) ` 4600
- (c) ` 4800
- (d) ` 5000
- (e) ` 4400

52. What is the difference between the cost of fencing of C and that of B ?

- (a) ` 180
- (b) ` 120
- (c) ` 240
- (d) ` 360
- (e) ` 480

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53. What is the ratio of the cost of flooring to that of fencing of field D ?  
 (a) 4 : 1 (b) 6 : 1  
 (c) 8 : 1 (d) 9 : 1  
 (e) 5 : 1
54. The cost of fencing of field E is approximately what percent of the cost of flooring of field C ?  
 (a) 10.5% (b) 19.46%  
 (c) 18.71% (d) 15.36%  
 (e) 13.82%
55. The cost of fencing of field C is what percent of the cost of flooring of field ?  
 (a) 54% (b) 12%  
 (c) 13% (d) 36%  
 (e) 5%
56. A shopkeeper gives 10% discount on marked price of an article and earns a profit of 25% on it. If cost price of the article is ₹ 2160, then find the marked price of the article?  
 (a) ₹ 2500 (b) ₹ 2700  
 (c) ₹ 3500 (d) ₹ 3000  
 (e) ₹ 4500
57. The ratio between present ages of Ritu and Priya is 3 : 5. After 6 years, this ratio becomes 2 : 3. Find the present age of Priya ?  
 (a) 25 years (b) 32 years  
 (c) 30 years (d) 27 years  
 (e) 35 years
58. The speed of a boat in still water is 12 kmph. If the boat covers 36 km upstream in 4 hours, what is the speed of stream?  
 (a) 3 km/hr (b) 4 km/hr  
 (c) 5 km/hr (d) 2 km/hr  
 (e) 6 km/hr
59. The difference between C.I. and S.I. on a certain sum at the rate of 10% per annum for 2 years is ₹ 122. Find that sum (in ₹).  
 (a) 12,000 (b) 12,400  
 (c) 12,200 (d) 13,400  
 (e) 14,600
60. X and Y started a business with capitals ₹ 20000 and ₹ 25000. After few months Z joined them with a capital of ₹ 30000. If the share of Z in the annual profit of ₹ 50000 is ₹ 14000, then after how many months from the beginning did Z join?  
 (a) 7 (b) 6  
 (c) 3 (d) 4  
 (e) 5
- (a) if  $a > b$   
 (b) if  $a \geq b$   
 (c) if  $a = b$  or no relation can be established between  $a$  and  $b$ .  
 (d) if  $a \leq b$   
 (e) if  $a < b$
61. I.  $a^2 - 11a + 24 = 0$   
 II.  $b^2 + 3b - 18 = 0$
62. I.  $2a^2 + 17a + 35 = 0$   
 II.  $3b^2 + 17b + 24 = 0$
63. I.  $a^2 + 72 = 108$   
 II.  $b^3 + 581 = 365$
64. The concentration of Alcohol in 60L water and Alcohol solution is 30%. If 6L of solution replaced by water and 5L of resulting solution again replaced by water, then find the concentration of Alcohol in final solution.  
 (a) 24.75% (b) 25%  
 (c) 23.5% (d) 22.2%  
 (e) None of these
65. Two friends P and Q are running in opposite direction from A to B and another from B to A. Speed of P is  $\frac{8}{5}$  of speed of Q. After meeting each other, if P takes 3.5 hours to reach B then what will be the time taken by Q to reach A after meeting?  
 (a) 8.96 hours (b) 9 hours  
 (c) 9.20 hours (d) 10 hours  
 (e) 10.20 hours
66. The ratio between two numbers is 3 : 5. If the smaller number is increased by 20% and the bigger one is decreased by 25%, the new ratio of numbers (smaller: bigger) will be –  
 (a) 25 : 24 (b) 24 : 25  
 (c) 23 : 24 (d) 24 : 23  
 (e) 11 : 13
67. Mr. Aditya's age is 120% of his wife Sunita's age. They have two children. The average age of family is 20 years. If Sunita's age is 25 years, what is the average age of both children?  
 (a) 13 years (b) 12.5 years  
 (c) 14.5 years (d) 15 years  
 (e) None of these
68. A man can swim at 8 kmph in still water. He covers an equal distance of 18 km both in upstream and downstream between two points in 6 hours. Find the speed of stream.  
 (a) 5 km/h (b) 6 km/h  
 (c) 7 km/h (d) 4 km/h  
 (e) None of these

**DIRECTIONS (Qs. 61-63):** In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer accordingly.

**DIRECTIONS (Qs. 69 & 70):** Each question below is followed by two statements A and B. You have to determine whether the data given in the statement is sufficient for answering the question.



Give answer:

- (a) if the statement **A alone** is sufficient to answer the question, but the statement **B alone** is not sufficient.  
 (b) if the statement **B alone** is sufficient to answer the question, but the statement **A alone** is not sufficient.  
 (c) if both statements **A and B together** are needed to answer the question.  
 (d) if either the statements **A alone or statement B alone** is sufficient to answer the question  
 (e) if you **cannot get** the answer from the statements **A and B together**, but need even more data.
69. Triangle ABC has angle BAC equal to  $90^\circ$ . What is the measure of the angle ABC?  
 A. The angle ACB is  $35^\circ$ .  
 B. The angle CBA is  $55^\circ$ .
70. What is the rate p.c.p.a. on an amount of ₹ 6,000 deposited in a Bank?  
 A. The simple interest for four years is ₹ 3600.  
 B. The difference between the simple interest and compound interest is ₹ 894.0375.

**DIRECTIONS (Qs. 71-75):** What value should come in place of question mark (?) in the following question?

71.  $26.56 + 135.652 = ? - 451.652$   
 (a) 625.658 (b) 613.864  
 (c) 618.654 (d) 603.864  
 (e) 675.6522
72.  $5/7$  of 567 +  $2/5$  of 485 = ?  
 (a) 525 (b) 652  
 (c) 599 (d) 585  
 (e) 600
73.  $13.013 - 22.104 + 62.903 - 9.048 = ?$   
 (a) 44.744 (b) 42.764  
 (c) 4.724 (d) 44.764  
 (e) None of these
74.  $150\%$  of 460 +  $24\%$  of 650 = ?  
 (a) 854 (b) 846  
 (c) 895 (d) 825  
 (e) 864
75.  $41\%$  of 601 -  $250.17 = ? - 77\%$  of 910  
 (a) 800 (b) 500  
 (c) 700 (d) 650  
 (e) 550

**DIRECTIONS (Qs. 76-80):** What will come in the place of the question mark (?) in the following number series?

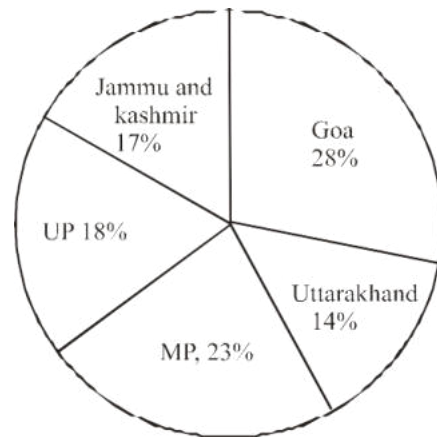
76. 3600, 600, 120, 30, ?, 5  
 (a) 18 (b) 15  
 (c) 12 (d) 10  
 (e) 8

77. 2, 17, 89, 359, 1079, ?  
 (a) 2158 (b) 2159  
 (c) 1869 (d) 1969  
 (e) 2069
78. 27, 99, 39, 87, 51, ?  
 (a) 73 (b) 74  
 (c) 75 (d) 76  
 (e) 77
79. 456.5, 407, 368.5, 341, 324.5 ?  
 (a) 321 (b) 319  
 (c) 317 (d) 323  
 (e) None of these
80. 24, 536, 487, 703, 678, ?  
 (a) 768 (b) 748  
 (c) 764 (d) 742  
 (e) None of these

**DIRECTIONS (Qs. 81-85):** Study the following pie chart and table carefully to answer the following questions that follow:

Percentage break up of tourist who visited across various states of India and the ratio of men to women in them. And Total Number of tourists = 1800

Percentage Break up of tourist



| Ratio of Male to female tourist |      |        |
|---------------------------------|------|--------|
| States                          | Male | female |
| Goa                             | 13   | 1      |
| Uttarakhand                     | 2    | 5      |
| MP                              | 12   | 11     |
| UP                              | 5    | 1      |
| Jammu and Kashmir               | 5    | 12     |

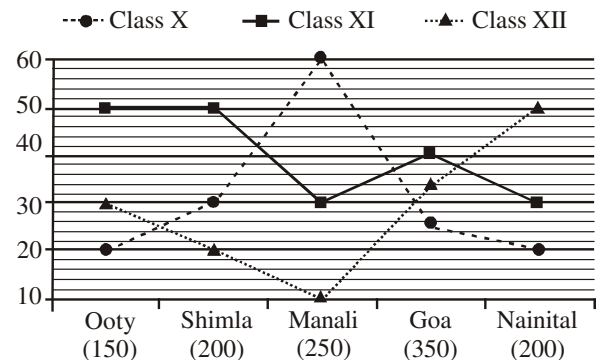
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81. What is the number of male tourists who visited of Goa and MP together?  
 (a) 632 (b) 674  
 (c) 684 (d) 649  
 (e) None of these
82. The number of female tourists who visited MP are what per cent of the total number of tourists who visited all states together?  
 (a) 7 % (b) 5 %  
 (c) 19 % (d) 15 %  
 (e) 11 %
83. What is the respective ratio of the number of female tourists who visited Uttarakhand and Jammu & Kashmir together to the total number of tourist who visited above mentioned two states together?  
 (a) 35 : 33 (b) 23 : 51  
 (c) 22 : 31 (d) 3 : 7  
 (e) None of these
84. What is the approximate average no. of male tourists who visited all the states together?  
 (a) 212 (b) 210  
 (c) 223 (d) 208  
 (e) 206
85. The number of male tourist who visited Goa are what per cent of total number of tourist who visited Goa?  
 (a)  $92\frac{5}{7}\%$  (b)  $92\frac{6}{7}\%$   
 (c)  $94\frac{6}{7}\%$  (d)  $95\frac{6}{7}\%$   
 (e)  $94\frac{6}{7}\%$
87. What was the value of output per tree for coconuts?  
 (a) ` 36 (b) ` 360  
 (c) ` 3,600 (d) ` 240  
 (e) None of these
88. What was the amount received by Gopal in 1997?  
 (a) ` 1.5 lakh (b) ` 3 lakh  
 (c) ` 6 lakh (d) Cannot be determined  
 (e) None of these
89. What was the value of output per acre of the lemon tree planted?  
 (a) 0.24 lakh/acre (b) 2.4 lakh/acre  
 (c) 24 lakh/acres (d) Cannot be determined  
 (e) None of these
90. What was the total output of coconuts?  
 (a) ` 24,000 (b) ` 36,000  
 (c) ` 18,000 (d) ` 48,000  
 (e) None of these

**DIRECTIONS (Qs. 91-95):** Study the bar graph given below and answer the following questions:

The bar graph below shows the percentage break-up of the number of students who visited various tourist spots on New Year Evening.



The table below shows the total number of students in classes X, XI and XII.

| Class | No. of students |
|-------|-----------------|
| X     | 420             |
| XI    | 480             |
| XII   | 400             |

Note: No Student went to more than one place.

**DIRECTIONS (Qs. 86-90):** Answer the questions based of the following information.

Krishna distributed 10-acre land to Gopal and Ram who paid him the total amount in the ratio 2 : 3. Gopal invested a further ` 2 lakh in the land and planted coconut and lemon trees in the ratio 5 : 1 on equal areas of land. There were a total of 100 lemon trees. The cost of one coconut was ` 5. The crop took 7 yr to mature and when the crop was reaped in 1997, the total revenue generated was 25% of the total amount put in by Gopal and Ram together. The revenue generated from the coconut and lemon trees was in the ratio 3 : 2 and it was shared equally by Gopal and Ram as the initial amounts spent by them were equal.

86. What was the ratio of yield per acre of land for coconuts and lemons (in terms of number of lemons and coconuts)?  
 (a) 3 : 2 (b) 2 : 3  
 (c) 1 : 1 (d) Cannot be determined  
 (e) None of these

91. If the ratio of girls and boys, who went to Manali from class X, was 7 : 8, then what percent of the total number of students from class X who went to a tourist spot is the number of girls who went to Manali? (approximate)  
 (a) 19% (b) 23%  
 (c) 25% (d) 15%  
 (e) 21%

92. What is the difference between the number of students who did not go to any tourist spot from class XI and that from class XII?  
 (a) 19 (b) 41  
 (c) 27 (d) 21  
 (e) None of these
93. If all the students from class XII who did not go to any tourist spot, later changed their mind and went to Nainital, then calculate the % mark-up in the number of students who visited Nainital?  
 (a) 30% (b) 25.5%  
 (c) 35.5% (d) 42.6%  
 (e) None of these
94. The number of students from class XI and XII together who visited Manali is what percent of the number of students from class X who visited Shimla, Ooty and Nainital together? (approximate)  
 (a) 81% (b) 72%  
 (c) 75% (d) 77%  
 (e) 70%
95. Find the total number of students who didn't visit any tourist spot?  
 (a) 152 (b) 165  
 (c) 105 (d) 150  
 (e) None of these

**DIRECTIONS (Qs. 96-100):** In the following questions two statements (Quantity -I and Quantity -II) are given. You have to solve both the statements and give answer.

- (a) Quantity I > Quantity II  
 (b) Quantity I  $\geq$  Quantity II  
 (c) Quantity II > Quantity I  
 (d) Quantity II  $\geq$  Quantity I  
 (e) Quantity I = Quantity II or Relation cannot be established
96. **Quantity I:** The age of teacher, if the average age of 36 students is 14. When teacher's age is included the average increases by 1.  
**Quantity II:** The age of teacher, if the average age of 19 students is 35. When teacher's age is included the average increases by 0.5.
97. **Quantity I:** Profit Percentage, if Some articles were bought at 6 articles for ₹ 5 and sold at 5 articles for ₹ 6.  
**Quantity II:** Profit Percentage, if 100 toys are bought at the rate of ₹ 350 and sold at the rate of ₹ 48 per dozen.
98. **Quantity I:** On selling 17 balls at ₹ 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:  
**Quantity II:** A man buys a cycle for ₹ 1400 and sells it at a loss of 15%. The selling price is:
99. **Quantity I:** A and B together can do a piece of work in 4 days. If A alone can do the same work in 6 days, then B alone can do the same work in?  
**Quantity II:** A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do it in 2 hours. How long will B alone take to do it?

100. **Quantity I:** A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed of the tour is:

**Quantity II:** A went from P to Q with the speed of 60 km/hr. and return back with the speed of 90 km/hr. Find the average speed.

### General English

**DIRECTIONS (Qs. 101-110):** Read the passage given below and answer the questions that follow based on the information given in the passage.

Right through history, imperial powers have clung to their possessions to death. Why, then, did Britain in 1947 give up the jewel in its crown, India? For many reasons. The independence struggle exposed the hollowness of the white man's burden. Provincial self-rule since 1935 paved the way for full self-rule. Churchill resisted independence, but the Labour Government of Atlee was anti-imperialist by ideology. Finally, the Royal Indian Navy Mutiny in 1946 raised fears of a second Sepoy Mutiny, and convinced British waverers that it was safer to withdraw gracefully. But politico-military explanations are not enough. The basis of empire was always money. The end of empire had much to do with the fact that British imperialism had ceased to be profitable. World War II left Britain victorious but deeply indebted, needing Marshall Aid and loans from the World Bank. This constituted a strong financial case for ending the no longer-profitable empire.

Empire building is expensive. The US is spending one billion dollar a day in operations in Iraq that fall well short of fullscale imperialism. Through the centuries, empire building was costly, yet constantly undertaken because it promised high returns. The investment was in armies and conquest. The returns came through plunder and taxes from the conquered. No immorality was attached to imperial loot and plunder. The biggest conquerors were typically revered (hence titles like Alexander the Great, Akbar the Great, and Peter the Great). The bigger and richer the empire, the more the plunderer was admired. This mindset gradually changed with the rise of new ideas about equality and governing for the public good, ideas that culminated in the French and the American Revolutions. Robert Clive was impeached for making a little money on the side, and so was Warren Hastings. The white man's burden came up as a new moral rationale for conquest. It was supposedly for the The Princeton Review CAT sample paper 12 good of the conquered. This led to much muddled hypocrisy. On the one hand, the empire needed to be profitable. On the other hand, the white man's burden made brazen loot impossible.

An additional factor deterring loot was the 1857 Sepoy Mutiny. Though crushed, it reminded the British vividly that they were a tiny ethnic group who could not rule a gigantic subcontinent without the support of important locals. After 1857, the British stopped annexing one princely state after another, and instead treated the princes as allies. Land revenue was fixed in absolute

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terms, partly to prevent local unrest and partly to promote the notion of the white man's burden. The empire proclaimed itself to be a protector of the Indian peasant against exploitation by Indian elites. This was denounced as hypocrisy by nationalists like Dadabhai Naoroji in the 19th century, who complained that land taxes led to an enormous drain from India to Britain. Objective calculations by historians like Angus Maddison suggest a drain of perhaps 1.6 percent of Indian Gross National Product in the 19th century.

But land revenue was more or less fixed by the Raj in absolute terms, and so its real value diminished rapidly with inflation in the 20th century. By World War II, India had ceased to be a profit centre for the British Empire. Historically, conquered nations paid taxes to finance fresh wars of the conqueror. India itself was asked to pay a large sum at the end of World War I to help repair Britain's finances.

But, as shown by historian Indivar Kamtekar, the independence movement led by Gandhiji changed the political landscape, and made mass-taxation of India increasingly difficult. By World War II, this had become politically impossible. Far from taxing India to pay for World War II, Britain actually began paying India for its contribution of men and goods. Troops from white dominions like Australia, Canada and New Zealand were paid for entirely by these countries, but Indian costs were shared by the British government. Britain paid in the form of non-convertible sterling balances, which mounted swiftly. The conqueror was paying the conquered, undercutting the profitability on which all empire is founded. Churchill opposed this, and wanted to tax India rather than owe it money.

But he was overruled by Indian hands, who said India would resist payment, and paralyze the war effort. Leo Amery, Secretary of State for India, said that when you are driving in a taxi to the station to catch a life-or-death train, you do not loudly announce that you have doubts whether to pay the fare. Thus, World War II converted India from a debtor to a creditor with over one billion pound in sterling balances. Britain, meanwhile, became the biggest debtor in the world. It's not worth ruling over people who are afraid to tax.

101. Which of the following was NOT a reason for the emergence of the 'white man's burden' as a new rationale for empire building in India?

- (a) The emergence of the idea of the public good as an element of governance.
- (b) The decreasing returns from imperial loot and increasing costs of conquest.
- (c) The weakening of the immorality attached to an emperor's looting behaviour.
- (d) A growing awareness of the idea of equality among peoples.
- (e) None of these

102. Which of the following best expresses the main purpose of the author?

- (a) To present the various reasons that can lead to the collapse of an empire and the granting of independence to the subjects of an empire.
- (b) To point out the critical role played by the 'white man's burden' in making a colonizing power give up its claims to native possessions.
- (c) To highlight the contradictory impulse underpinning empire building which is a costly business but very attractive at the same time.
- (d) To illustrate how erosion of the financial basis of an empire supports the granting of independence to an empire's constituents.
- (e) None of these

103. What was the main lesson the British learned from the Sepoy Mutiny of 1857?

- (a) That the local princes were allies, not foes.
- (b) That the land revenue from India would decline dramatically.
- (c) That the British were a small ethnic group.
- (d) That India would be increasingly difficult to rule. The Princeton Review CAT sample paper 13
- (e) None of these

104. Which of the following best captures the meaning of the 'white man's burden', as it is used by the author?

- (a) The British claim to a civilizing mission directed at ensuring the good of the natives.
- (b) The inspiration for the French and the American Revolutions.
- (c) The resource drain that had to be borne by the home country's white population.
- (d) An imperative that made open looting of resources impossible.
- (e) None of these

105. Why didn't Britain tax India to finance its World War II efforts?

- (a) Australia, Canada and New Zealand had offered to pay for the Indian troops.
- (b) India had already paid a sufficiently large sum during World War I.
- (c) It was afraid that if India refused to pay, Britain's war efforts would be jeopardised.
- (d) The British empire was built on the premise that the conqueror pays the conquered.
- (e) None of these

**DIRECTIONS (Qs. 106-108) :** Choose the word which is opposite in meaning to the word printed in bold as used in the passage.

106. proclaim

- (a) declare
- (b) clarion
- (c) trumpet
- (d) predicate
- (e) deny

107. debtor  
 (a) loanee (b) drawee  
 (c) mortgagor (d) defaulter  
 (e) mortgagagee
108. hypocrisy  
 (a) glibness (b) phoniness  
 (c) honesty (d) quackery  
 (e) deceit

**DIRECTIONS (Qs. 109-110):** Choose the word which is most similar in meaning to the word printed in bold as used in the passage

109. imperialism  
 (a) developement (b) quackery  
 (c) underprogress (d) failure  
 (e) None of these
110. fresh  
 (a) new (b) old  
 (c) medium (d) light  
 (e) None of these

**DIRECTIONS (Qs. 111-114):** Read the following passage carefully and answer the questions given after the passage.

The Global Nutrition Report (GNR) and India Health Report on Nutrition, 2015 (IHR), offer a critical analysis of the state of nutrition in India. The first report, the India Health Report: Nutrition 2015(IHR), provides easy-to-understand, State-wise data dashboards that give a comprehensive view of nutrition and its determinants. It looks at disparities in these outcomes and their multiple determinants across geographical regions, socio-economic classes, and demographic groups to help identify strategic choices for policy-making at the State level.

In turn, GNR assesses progress in reducing malnutrition for all 193 countries. It concludes that while India is on track to meeting only two of the eight global targets on nutrition, it has significantly improved its nutrition performance in the past 10 years. GNR notes that there has been a big increase in the number of countries on track to meet global nutrition targets, and encourages countries, including India, to establish specific and time-bound targets for malnutrition reduction that are consistent with the new Sustainable Development Goals. Together, these reports paint several pictures about India, a data-poor country. They portray one of great progress in improving nutrition across India; stunting among children, a marker of the most persistent types of malnutrition, has declined rapidly in the last ten years. And this decline has been faster than in many other countries. But as we dig deeper, there are diverse pictures about the life conditions of Indian children - positive stories about children's lives and futures in Goa, Kerala, Manipur and Tamil Nadu, but dismal ones in Bihar, Jharkhand and Uttar Pradesh. What cannot be debated is the reality of deep, systemic inequality; of inequality in the circumstances that children are born into, that they live and grow in. For those of us who are worried about India's economic

growth, these are also pictures of inequality that point to how well these children will be able to contribute to India's economic growth and their own prosperity. Their poor nutrition stunts more than their bodies. It stunts their well-being, and, consequentially, that of their home States and their nation. Two other things, both related to inequality, stand out as well in the data. First, the data point to tremendous variability across States in delivering what should be universal, rights-based and already mandated health and nutrition services. For example, sample this for intra-State disparity. Food provided by the Integrated Child Development Services reaches barely 1 in 5 children in Uttar Pradesh but over 90 per cent in Odisha. Less than 33 per cent of children in Nagaland are fully immunised; in Goa, it is more than 90 per cent. Close to 80 per cent defecate in the open in Odisha; barely 2 per cent do so in Kerala. Why?

These are disparities across States that operate in the same national framework, and there is, let's face it, no good reason for this other than an inability or an unwillingness to invest in changing ground realities, for everyone and everywhere. This is not an insurmountable challenge and it's certainly an area where States can, if they want it, make dramatic change in short timeframes. Examples abound from within India. The data in the reports show that, clearly, the imperative for introspection, and looking within for solutions was never clearer. No child should go without basic health care, food security and things like water and a toilet. Indeed, no adult should either. No society should condone such inequalities in the basics. And no society has progressed without addressing these basics.

111. What are the disparities that states are facing in the national framework?
- I. Health and nutrition services
  - II. Variable food services
  - III. Inequality in education
- (a) III (b) II & III  
 (c) I & II (d) I, II & III  
 (e) none of the above
112. The Global Nutrition Report focuses mainly on the
- (a) Sustainable Development Goals
  - (b) comprehensive view of nutrition and its determinants
  - (c) India's economic growth
  - (d) Intra-State variability
  - (e) Progress in reducing malnutrition
113. Which of the following would be the suitable title?
- (a) State of nutrition in India
  - (b) Global nutrition targets
  - (c) Nutrition and its determinants
  - (d) Progressive India
  - (e) Inequality: A big challenge
114. According to author what is the biggest challenge that India is facing?
- (a) Reducing progress in malnutrition
  - (b) Inability to invest in education and health services
  - (c) unwillingness and inability to invest in basic facilities
  - (d) High global nutrition targets
  - (e) None of these



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**DIRECTIONS (Q.115):** Each question below contains a statement with three blanks followed by four options. Choose which words can fill the three blanks and mark it as your answer.

115. The creation of NITI Aayog was \_\_\_\_\_ to be a game changer, to \_\_\_\_\_ new vigour and rigour in the policy planning process, involve key stakeholders, and address the \_\_\_\_\_ of the previous body.
- proposed, absorb, challenges
  - proposed, address, success
  - expected, infuse, failures
  - supposed, implant, accomplishment
  - considered, deter, drawbacks
116. The Competition Commission with a \_\_\_\_\_ to protect the consumer from industry \_\_\_\_\_ has been fully functional for eight years now and has \_\_\_\_\_ a good reputation for itself.
- goal, monsters, performed
  - command, monopoly, priced
  - mandate, cartelization, earned
  - score, growth, reached
  - goal, threats, gained
117. The \_\_\_\_\_ for debt-waiver programmes comes from the theoretical argument that a high level of outstanding debt \_\_\_\_\_ the incentive for the debtor to \_\_\_\_\_ effort to repay.
- support, reduces, exert
  - opposition, increases, increase
  - disapproval, forces, minimize
  - notice, moves, creditors
  - help, hinder, toil
118. With weapons stolen from the government, a group of \_\_\_\_\_ begin to unleash \_\_\_\_\_ on citizens worldwide and plan to get rich in the process-until a young man accidentally finds the kill switch to \_\_\_\_\_ their plans.
- attacker, lawfulness, devise
  - gangsters, havoc, succeed
  - warrior, freedom, withdraw
  - belligerents, anarchy, destroy
  - hooligans, laxity, ruin
119. Even now, after the chaos caused by India's decision last November to \_\_\_\_\_ nearly 90% of its banknotes, few people would argue with the policy's \_\_\_\_\_ assumption: Going cashless is, if \_\_\_\_\_ well, a good thing.
- reduce, hidden, transferred
  - eliminate, underlying, handled
  - find, dominating, performed
  - hide, valued, viewed
  - defunct, inherent, wielded

**DIRECTIONS (Qs. 120-124):** In each of the following questions a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent.

120. After the West Asia crisis, the World Bank conducted a study on the major reasons for the crisis. It was found that at least a major part of the fundamental responsibility was on banks, which had understated their non performing accounts by as much as 47%. Since this was a study and not an investigation \_\_\_\_\_ Nevertheless, the Ramsel committee on supervision did take cognizance, and issued circulars and directives not only on supervision, but also on Internal Functional Management. It will be remembered by those interested that Basel committee had also acted expeditiously after the Barring Bank's failure, to separate treasury and lending operations from the decision making processes. Bank failures are nothing new in the world, although we in India have been insulated from such traumas for more than two decades.
- The findings were not taken note of
  - The findings were not taken seriously
  - The findings were not legally binding on any one
  - The fallout from this revelation was only taken note of
  - The fallout from this revelation was seriously taken
121. Whether the Government is right in bailing out a private sector bank is an issue that is decided more than by the long term social security policy of the Government, than by economic reasons alone \_\_\_\_\_. Nevertheless, in a situation of scarcity of resources, bailing out somebody means the denial of resources to others. The irony of it is that in performing its duties of proper governance to the larger society through the process of bailing out, Government excuses the lack of corporate governance in banks.
- Economists world over learnt it hard way during the Great depression
  - This is elementary principle of economics taught in schools
  - Reasons are not limited to these two but extend to debts, liquidity & credit ratings issues
  - It was unexpected and came like a bolt from the blue
  - Particularly true for the Asian countries like India and China
122. But no depreciation is allowed on Live Stock i.e. Horses. Although the horses are in the nature of fixed assets in the hands of the owner, no depreciation is allowed under Income Tax Act. Instead when the animal dies or becomes permanently useless the entire value of the horse can be written off as revenue loss in the year in which it dies or becomes permanently useless. When the gross income exceeds the total expenditure, it results in net profit which will be taxable at usual rates of tax applicable to the person. \_\_\_\_\_ Although the live stock is in the nature of fixed assets of the owners buy them, maintain them, train them, and participate in races and Sell them or send them away to studs when they are useless.

- (a) But when the gross income is less than the expenditure, then results it in loss
- (b) But when the gross income is higher than the expenditure, then results in loss
- (c) But when the gross income is equal to expenditure then result is loss
- (d) But when the gross income is there loss is the result
- (e) But when the gross income is increasing then result is becoming evident
123. Aggregation of risks is somewhat quite new to banks in India. While some banks have started thinking in that line by trying to put integrated limits framework and integrated risk policies as well as using CBS solutions for technological integration, the effort required is beyond such requirement. Risk aggregation would mean aggregating the individual risk measures to decide most appropriate assets class that would contain the risk to the desired level dictated by the risk appetite. Capital allocation (about how much) would be based on such strategies \_\_\_\_\_
- (a) Most banks are yet to conceptualize the same in their processes
- (b) Most banks have already integrated it in their functioning; it is working over the years satisfactorily.
- (c) Which would in long run prove to be the growth impeding
- (d) Of risk aggregation which is really a new concept to Indian banks
- (e) On expected lines of the regulation conditions laid down in the manual of the bank
124. However, it is possible that the non-resident entity may have a business connection with the resident Indian entity. In such a case, the resident Indian entity could be treated as Permanent Establishment of the nonresident entity. \_\_\_\_\_. During the last decade or so, India has seen a steady growth of outsourcing of business processes by non-residents or foreign companies to IT-enabled entities in India. Such entities are either branches or associated enterprises of the foreign enterprise or an independent India enterprise. The nonresident entity or foreign company will be liable to tax in India only if the IT-enabled BPO unit in India constitutes its Permanent Establishment.
- (a) The tax treatment of the Permanent Establishment in such a case is under consideration
- (b) How would the profit would be shared is not decided yet?
- (c) A lengthy and cumbersome process requiring a lot of application of mind and revenue principles is ahead for the tax department of India
- (d) A new trend is seen in last decade.
- (e) Indian companies have a lot on stake as competition increases.

**DIRECTIONS (Qs. 125-129):** For each of the following questions, a part or the whole of the original sentence has been bold. You have to find the best way of writing the bold part of the sentence. If the sentence is grammatically correct, mark option (e) .i.e. "No correction required".

125. The concerned matter was referred back to the sports committee since the solution to the problem was different from the one proposed earlier.
- (a) referred back to the sports committee since the solution in the problem was different from the one proposed earlier.
- (b) referred to the sports committee since the solution to the problem was different from the one proposed earlier.
- (c) referred back to the sports committee since the solution to the problem was different than the one proposed earlier.
- (d) referred to committee since the solution to the problem was different than the one proposed earlier.
- (e) No correction required
126. Armed with the talents of a high intellect, an actor with extraordinary gifts and an ingenious criminal, Charles Sobhraj played an overbearing role in the sensationalisation of crime during the later part of the 20th century in the Indian sub continent.
- (a) an actor with extraordinary gifts of an ingenious criminal
- (b) an ingenious actor and an extraordinarily gifted criminal
- (c) a gifted actor and an ingeniously criminal
- (d) an extraordinarily gifted actor and an ingenious criminal
- (e) No correction required
127. The smaller firms in any industry sell either on a price or quality-of-workmanship basis.
- (a) The smaller firms in any industry sells either on a price or quality-of-workmanship basis.
- (b) The smaller firms in any industry either sell on a price or quality-of-workmanship basis.
- (c) The smaller firms in any industry sell on either a price or a quality-of-workmanship basis.
- (d) The smaller firms in any industry sell on either a price or on a quality-of-workmanship basis.
- (e) No correction required
128. Current economic conditions demand that we not only cut jobs and prices but also reduce the rate of interest on PF deposits.
- (a) that we not only cut jobs and prices but also
- (b) not only cutting job and prices but also to
- (c) not only to cut jobs and prices but also
- (d) not only a cut in jobs and prices but also to
- (e) No correction required
129. All-rounders in any cricket team, in theory, make good sense; in actuality, however, they are normally difficult to discover.

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- (a) they were normally  
(b) it is normally  
(c) such players are normally  
(d) it is usually expected that it is  
(e) No correction required
130. Choose the word which is the Synonym of the first word as well as the Antonym of the second word.  
I. Skeptical  
II. Sanguine  
(a) Spirited (b) Convivial  
(c) Perky (d) Buoyant  
(e) Dubious

**DIRECTIONS (Qs. 131-135):** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five phrases are suggested. Choose the phrase that best fits the blank appropriately and contextually. If no phrase fits the blank then choose (e) i.e. 'None of the above' as your answer.

Saudi Arabia's furious response to Canada's criticism of the arrest of rights activists in the Kingdom (131) question Crown Prince Mohammed bin Salman's professed commitment to reform. Having ascended last June to be second in line to the throne, he had promised progressive economic and political change. Since then, Saudi Arabia has allowed women to drive, cracked down on hardliners among the clergy and projected itself as a moderate Islamic country that respects people's rights, compared to "extremist Iran". But when Canadian Foreign Minister Chrystia Freeland (132) release of Samar Badawi, a Saudi women's rights activist who was detained last week, and her brother Raif Badawi, Riyadh took a series of unilateral steps. Terming Ms. Freeland's appeal as interference in its domestic affairs, it expelled the Canadian Ambassador, called back its envoy from Ottawa, froze trade with Canada and said it would transfer out some 12,000 Saudi citizens studying in Canadian universities. Ms. Badawi (133) Saudi Arabia's guardianship laws that require all Saudi women to have a male guardian. Riyadh is (134) reasons for the arrest. Her brother, who ran a website critical of the Saudi religious establishment, was sentenced to 10 years in jail and 1,000 lashes in 2014. On overseas visits, Prince Mohammed has dwelt on his plan to improve women's rights and strengthen the economy. He is also obliquely (135) guardianship laws, saying they did not exist in Saudi Arabia before 1979 - the year of the Iranian revolution and the siege of the Grand Mosque at Mecca.

131. (a) once again calls for  
(b) yet again deterred into  
(c) one again calls into  
(d) over and again called for  
(e) None of the above
132. (a) called for the (b) request for the  
(c) ordered for the (d) asked about the  
(e) None of the above
133. (a) had long campaigning against  
(b) has long campaigning for  
(c) had long campaigning for  
(d) has long campaigned against  
(e) None of the above

134. (a) almost to give  
(b) about to negate  
(c) looking forward to nullify  
(d) yet to giving  
(e) None of the above
135. (a) critical against the  
(b) critical of the  
(c) critical about the  
(d) critical for the  
(e) None of the above

**DIRECTIONS (Qs. 136-140):** In each of the question given below a/an idiom/phrase is given in bold which is then followed by five options which then try to decipher its meaning as used in the sentence. Choose the option which gives the meaning of the phrase most appropriately in context of the given sentence.

136. Shyam can't afford to buy that car! It **costs an arm and a leg**.  
(a) something that can be found rarely  
(b) something very expensive  
(c) something very cheap  
(d) something that is easily available  
(e) none of the above
137. He found her dream house and has now landed an amazing job. He really does have **the best of both worlds**.  
(a) to have lots of money to make the things done  
(b) you can enjoy two different opportunities at the same time  
(c) to play tricks in order to achieve targets  
(d) to bribe someone  
(e) to be honest
138. She might not be the most attractive but you can't **judge a book by its cover**. I'm sure she is a sweetheart.  
(a) to prove someone innocent  
(b) to make someone a cheater  
(c) to not judge someone or something based solely on appearance  
(d) to select a book by seeing its contents  
(e) to select a book by its quantity
139. John is just never on time to work, it's really irritating. O wow, **speak of the devil here she come**.  
(a) the person you're talking about actually turns out to be angry  
(b) the person you're talking about actually turns out to be happy  
(c) the person you're just talking about actually turns up at that moment  
(d) the person you're talking about actually turns out to be celebrating  
(e) none of the above
140. We missed our flight to Paris because the connecting flight was late and to **add insult to injury** they made us pay for a new ticket as if it was our fault!  
(a) to be compensated (b) to make a situation worse  
(c) to be reprimanded (d) to be praised  
(e) to be ruined

## General/Financial Awareness

141. Union Cabinet has approved an ordinance to set up the country's first national sports university in  
 (a) Ahmedabad, Gujarat (b) Bengaluru, Karnataka  
 (c) Patna, Bihar (d) Imphal, Manipur  
 (e) Guwahati, Assam
142. CBLO is operated by the Clearing Corporation of India Limited (CCIL) and Reserve Bank of India (RBI). What is the meaning of "C" in CBLO?  
 (a) Collateralized (b) Central  
 (c) Commission (d) Common  
 (e) Core
143. IRDAI has formed a panel to review the regulations pertaining to insurance marketing firms. The committee is headed by-  
 (a) Injeti Srinivas (b) Anil Swarup  
 (c) Suresh Mathur (d) Ravindra H Dholakia  
 (e) E Sreedharan
144. Ajay Thakur is related to which sports?  
 (a) Weightlifting (b) Boxing  
 (c) Cricket (d) Football  
 (e) Kabaddi
145. The International Organization for Migration is an inter-governmental organization that provides services and advice concerning migration to governments and migrants, including internally displaced persons, refugees, and migrant workers. Where is the headquarters of International Organization for Migration?  
 (a) France (b) Switzerland  
 (c) United Kingdom (d) Austria  
 (e) USA
146. The Asian Infrastructure Investment Bank (AIIB) is a multilateral development bank that aims to support the building of infrastructure in the Asia-Pacific region. Where is the headquarters of AIIB?  
 (a) Moscow (b) Bangkok  
 (c) Tokyo (d) New Delhi  
 (e) Beijing
147. Which company has launched Digital gold, enabling Indians to buy, store and sell pure gold instantly?  
 (a) State Bank of India (b) Airtel Money  
 (c) Muthoot Finance (d) Paytm  
 (e) Tata Consultancy Services
148. Communications Compatibility and Security Agreement (COMCASA) is meant to provide a legal framework for the transfer of communication security equipment from-  
 (a) Germany (b) Canada  
 (c) USA (d) France  
 (e) China
149. Where is the Secretariat office of SAARC Development Fund (SDF)?  
 (a) Nepal (b) Bhutan  
 (c) India (d) Pakistan  
 (e) Sri Lanka
150. What is the advantages of debentures?  
 (a) Control of the company by existing shareholders is not reduced, and profit-sharing remains in the same proportion.  
 (b) The use of debentures can encourage long-term funding to grow a business. It is also cost-effective when compared with other forms of lending.  
 (c) Valuable financial protection and reassurance is provided for directors as regards their personal funds.  
 (d) All of the above  
 (e) None of the given options is true
151. Prime Minister Narendra Modi and President Vladimir Putin held their first informal Summit in the city of \_\_\_\_\_ in Russia.  
 (a) Kazan (b) Sochi  
 (c) Saint Petersburg (d) Moscow  
 (e) Samara
152. Which is an umbrella organization for all retail payments in India?  
 (a) SEBI (b) IRDAI  
 (c) NABARD (d) NPCI  
 (e) RBI
153. What is the theme of World Environment Day 2018?  
 (a) Beat Plastic Pollution  
 (b) Combat Single-use Plastic Pollution  
 (c) Ever since its Conception for Pollution  
 (d) environmental Action and Takes  
 (e) None of the given options is true
154. Which language was the least spoken language in India in the 2011 census?  
 (a) Maithili (b) Konkani  
 (c) Manipuri (d) Bodo  
 (e) Sanskrit
155. The 2018 Women's Hockey World Cup was the 14th edition of the Women's Hockey World Cup, a field hockey tournament. Who was the captain of Indian Women's Hockey World Cup 2018?  
 (a) Tingonleima Chanu (b) Helen Mary  
 (c) Rani Rampal (d) Madhu Yadav  
 (e) Prem Maya Sonir
156. The Indira Sagar Dam is a multipurpose project in-  
 (a) Madhya Pradesh (b) Gujarat  
 (c) West Bengal (d) Maharashtra  
 (e) Kerala
157. Assumption Island is a small island in which country?  
 (a) Ethiopia (b) Madagascar  
 (c) Senegal (d) Morocco  
 (e) Zimbabwe
158. Malabo is the capital of city of-  
 (a) Ethiopia (b) Morocco  
 (c) Equatorial Guinea (d) Argentina  
 (e) Zambia
159. The Union Cabinet has approved extending the investment limit from Rs 7.5 lakh to Rs 15 lakh under the Pradhan Mantri Vaya Vandana Yojana (PMVVY). It also extended the last date for subscription to the scheme till-  
 (a) 31st March 2019 (b) 31st March 2020  
 (c) 31st March 2023 (d) 31st March 2022  
 (e) 31st March 2021
160. LRS is a facility provided by the RBI for all resident individuals including minors to freely remit upto a certain amount in terms of US Dollar for current and capital account purposes or a combination of both. What is the meaning of "R" in LRS?  
 (a) Remittance (b) Review  
 (c) Ranking (d) Release  
 (e) Random



2018-16

SBI Clerk (Junior Associates) Mains Solved Paper-2018

161. The 2026 FIFA World Cup will be the 23rd FIFA World Cup, the quadrennial international men's football championship contested by the national teams of the member associations of FIFA. Which country will host the FIFA World Cup 2026?  
 (a) Japan, China, India  
 (b) France, Germany, UK  
 (c) Brazil, USA, Russia  
 (d) United States, Canada, Mexico  
 (e) Italy, Canada, Scotland
162. Bhumi Pednekar has received Dadasaheb Phalke awards 2018, given by Dadasaheb Phalke Film Foundation for which film?  
 (a) **Toilet: Ek Prem Katha**  
 (b) Shubh Mangal Saavdhan  
 (c) Lust Stories  
 (d) Dum Laga Ke Haisha  
 (e) Sonchiraiya
163. Which Bank was takeover by LIC?  
 (a) Punjab National Bank (b) State Bank of India  
 (c) IDBI Bank (d) Bank of Baroda  
 (e) ICICI Bank
164. Government of India has designated \_\_\_\_\_ as the "Statistics Day" in the category of Special Days to be celebrated every year at the National level.  
 (a) 27th June (b) 08th June  
 (c) 12th June (d) 21st June  
 (e) 29th June
165. In which city ASEAN India Film Festival was held recently?  
 (a) Bengaluru (b) New Delhi  
 (c) Mumbai (d) Goa  
 (e) None of these
166. The United Nations Educational, Scientific and Cultural Organization (UNESCO) finally declared the city's Victorian and Art Deco Ensembles a World Heritage Site. It is located in-  
 (a) Hyderabad (b) Patna  
 (c) Mumbai (d) Kolkata  
 (e) Guwahati
167. In which state, Pilibhit Tiger Reserve is located?  
 (a) Karnataka (b) Uttarakhand  
 (c) Maharashtra (d) Odisha  
 (e) Uttar Pradesh
168. The two day 'Kabir Mahotsav' organized by the \_\_\_\_\_ to commemorate the 500th year of death anniversary (punya tithi) of 15th century poet-saint Kabir concludes today with much fanfare in Maghar, Sant Kabir Nagar District of Uttar Pradesh.  
 (a) Ministry of Culture  
 (b) Ministry of External Affairs  
 (c) Home Ministry  
 (d) Ministry for Development of North Eastern Region  
 (e) Ministry of Human Resource Development
169. Small Industries Development Bank of India (SIDBI) has charted a plan to promote micro enterprises in \_\_\_\_\_ aspirational districts across the country to contribute in their development.  
 (a) 125 (b) 105  
 (c) 110 (d) 115  
 (e) 120
170. The Department of Telecom has approved merger of Telenor India with which company?  
 (a) Idea (b) Airtel  
 (c) Vodafone (d) Jio  
 (e) BSNL
171. Shujaat Bukhari was a journalist and the editor of which Newspaper?  
 (a) The Times of India (b) The Hindu  
 (c) Hindustan Times (d) The Economic Times  
 (e) Rising Kashmir
172. Which Institute has launched a Bharat Inclusion Initiative to build knowledge and foster innovation and entrepreneurial activity across areas such as financial inclusion, livelihood, education and health?  
 (a) IIM-Kolkata (b) Indian Institute of Science  
 (c) IIT-Delhi (d) IIM-Ahmedabad  
 (e) IGNOU
173. International Conference on Telecommunications (ICT) was held in which country?  
 (a) Nepal (b) UAE  
 (c) India (d) China  
 (e) Russia
174. \_\_\_\_\_ brand diminishes the value of the car for which the title is issued because the brand generally reflects its damaged condition, the cost of needed repairs and its roadworthiness.  
 (a) Worthiness (b) Uneconomical  
 (c) Salvage (d) Branding  
 (e) None of the given options is true
175. NABARD has released how much fund (amount) in 2017-18?  
 (a) Rs 40,000 crore (b) Rs 65,000 crore  
 (c) Rs 25,000 crore (d) Rs 80,000 crore  
 (e) Rs 10,000 crore
176. If someone cannot pay EMI, what is it for the Bank?  
 (a) Credit Risk (b) Market Risk  
 (c) Bad Loans (d) NPA  
 (e) Interest
177. In which state, "BHAROSA" has launched?  
 (a) Rajasthan (b) Telangana  
 (c) Kerala (d) Madhya Pradesh  
 (e) Gujarat
178. Hirakud Dam is built across the Mahanadi River in-  
 (a) Rajasthan (b) Telangana  
 (c) Odisha (d) Madhya Pradesh  
 (e) Gujarat
179. Where is the Headquarters of Asian Development Bank (ADB)?  
 (a) New Delhi, India  
 (b) Tokyo, Japan  
 (c) Beijing, China  
 (d) Manila, Philippines  
 (e) Jakarta, Indonesia
180. Dudhwa National Park is a national park in the Terai of-  
 (a) Uttar Pradesh  
 (b) Kerala  
 (c) Bihar  
 (d) Madhya Pradesh  
 (e) Assam



181. 5th International Conference on Human Excellence through Yoga (2019) will be held in-  
 (a) Karnataka (b) Kerala  
 (c) Uttarakhand (d) Maharashtra  
 (e) Himachal Pradesh
182. World Micro, Small and Medium-sized Enterprises (MSMEs) Day is celebrated each year on-  
 (a) 27th June (b) 23rd June  
 (c) 19th June (d) 12th June  
 (e) 05th June
183. What is the meaning of "L" in LSR?  
 (a) Legal (b) Ledger  
 (c) Limit (d) Liquidity  
 (e) Least
184. The Union Cabinet Chaired by Prime Minister Shri Narendra Modi has approved the establishment of National Institute of Mental Health Rehabilitation (NIMHR) at-  
 (a) Dispur (b) Bhopal  
 (c) Lucknow (d) Patna  
 (e) Jaipur
185. Lusaka is the capital of-  
 (a) Kenya (b) South Sudan  
 (c) Yemen (d) Iraq  
 (e) Zambia
186. India has announced \_\_\_\_\_ million line of credit to Seychelles to strengthen its defence capabilities and maritime infrastructure even as the two countries decided to work together in the interest of each other on the controversial deal on Assumption Island, where India wants to build a strategic facility.  
 (a) \$1500million (b) \$300million  
 (c) \$500million (d) \$1000million  
 (e) \$100million
187. How much amount will be expand by NABARD in the current fiscal (2018-19) as part of its effort to improve the rural economy?  
 (a) ` 80,000 crore (b) ` 10,000 crore  
 (c) ` 60,000 crore (d) ` 50,000 crore  
 (e) ` 30,000 crore
188. The 2018 ICC Women's World Twenty20 will be hosted in-  
 (a) South Africa (b) Australia  
 (c) West Indies (d) Sri Lanka  
 (e) England
189. SKOCH has conferred the 'Best performing Social Sector Ministry' award on the Ministry of?  
 (a) Ministry of Consumer Affairs, Food and Public Distribution  
 (b) Ministry of Women and Child Development  
 (c) Ministry of External Affairs  
 (d) Ministry of Finance  
 (e) Ministry of Human Resource Development
190. The National Digital library of India is a project under Ministry of Human Resource Development, India. It is located in-  
 (a) Ajmer (b) Surat  
 (c) Varanasi (d) Kharagpur  
 (e) Darbhanga

ANSWER KEY

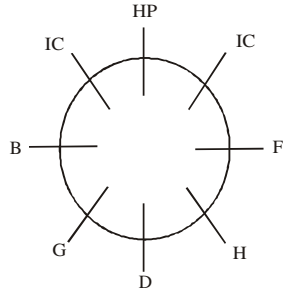
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|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | (d) | 21 | (c) | 41 | (d) | 61 | (b) | 81  | (c) | 101 | (a) | 121 | (a) | 141 | (d) | 161 | (d) | 181 | (c) |
| 2  | (a) | 22 | (a) | 42 | (e) | 62 | (e) | 82  | (e) | 102 | (d) | 122 | (a) | 142 | (a) | 162 | (a) | 182 | (a) |
| 3  | (c) | 23 | (c) | 43 | (d) | 63 | (b) | 83  | (c) | 103 | (c) | 123 | (a) | 143 | (c) | 163 | (c) | 183 | (d) |
| 4  | (e) | 24 | (e) | 44 | (a) | 64 | (a) | 84  | (c) | 104 | (a) | 124 | (a) | 144 | (e) | 164 | (e) | 184 | (b) |
| 5  | (e) | 25 | (b) | 45 | (b) | 65 | (a) | 85  | (b) | 105 | (c) | 125 | (b) | 145 | (b) | 165 | (b) | 185 | (e) |
| 6  | (a) | 26 | (d) | 46 | (a) | 66 | (b) | 86  | (d) | 106 | (e) | 126 | (d) | 146 | (e) | 166 | (c) | 186 | (e) |
| 7  | (c) | 27 | (b) | 47 | (e) | 67 | (b) | 87  | (b) | 107 | (e) | 127 | (c) | 147 | (d) | 167 | (e) | 187 | (a) |
| 8  | (b) | 28 | (c) | 48 | (b) | 68 | (d) | 88  | (a) | 108 | (c) | 128 | (e) | 148 | (c) | 168 | (a) | 188 | (c) |
| 9  | (c) | 29 | (b) | 49 | (a) | 69 | (d) | 89  | (a) | 109 | (a) | 129 | (c) | 149 | (b) | 169 | (d) | 189 | (b) |
| 10 | (d) | 30 | (a) | 50 | (b) | 70 | (a) | 90  | (b) | 110 | (a) | 130 | (e) | 150 | (d) | 170 | (b) | 190 | (d) |
| 11 | (c) | 31 | (b) | 51 | (c) | 71 | (b) | 91  | (a) | 111 | (c) | 131 | (c) | 151 | (b) | 171 | (e) |     |     |
| 12 | (a) | 32 | (a) | 52 | (a) | 72 | (c) | 92  | (b) | 112 | (e) | 132 | (a) | 152 | (d) | 172 | (d) |     |     |
| 13 | (d) | 33 | (c) | 53 | (d) | 73 | (d) | 93  | (c) | 113 | (a) | 133 | (d) | 153 | (a) | 173 | (a) |     |     |
| 14 | (c) | 34 | (d) | 54 | (d) | 74 | (b) | 94  | (d) | 114 | (c) | 134 | (e) | 154 | (e) | 174 | (c) |     |     |
| 15 | (c) | 35 | (a) | 55 | (b) | 75 | (c) | 95  | (d) | 115 | (c) | 135 | (b) | 155 | (c) | 175 | (b) |     |     |
| 16 | (e) | 36 | (c) | 56 | (d) | 76 | (d) | 96  | (a) | 116 | (c) | 136 | (b) | 156 | (a) | 176 | (a) |     |     |
| 17 | (d) | 37 | (e) | 57 | (c) | 77 | (b) | 97  | (a) | 117 | (a) | 137 | (b) | 157 | (b) | 177 | (b) |     |     |
| 18 | (d) | 38 | (d) | 58 | (a) | 78 | (c) | 98  | (c) | 118 | (d) | 138 | (c) | 158 | (c) | 178 | (c) |     |     |
| 19 | (c) | 39 | (e) | 59 | (c) | 79 | (b) | 99  | (a) | 119 | (b) | 139 | (c) | 159 | (b) | 179 | (d) |     |     |
| 20 | (e) | 40 | (b) | 60 | (e) | 80 | (d) | 100 | (c) | 120 | (d) | 140 | (b) | 160 | (a) | 180 | (a) |     |     |

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# ANSWERS & EXPLANATIONS

Solutions (1-5):



| Person | Place            | Month        |
|--------|------------------|--------------|
| A      | ?                | Oct / Dec    |
| B      | Hillstation      | Jan or march |
| C      | ?                | Oct / Dec    |
| D      | Hillstation      | Jan or march |
| E      | ?                | May          |
| F      | Hillstation      | Nov          |
| G      | Historical place | June         |
| H      | Historical place | August       |

1. (d) 2. (a) 3. (c) 4. (e) 5. (e)

Solutions (6-10):

|        |        |         |       |          |        |        |        |
|--------|--------|---------|-------|----------|--------|--------|--------|
| Gaurav | Bharat | Hemant  | Charu | Nitesh   | Pravin | Deepak | Isha   |
| April  | May    | January | June  | February | March  | July   | August |

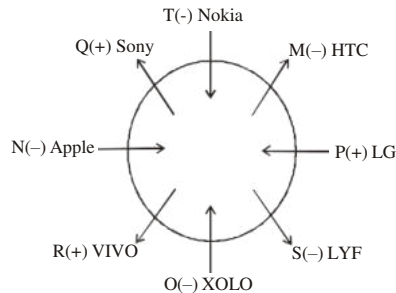
6. (a) 7. (c) 8. (b) 9. (c) 10. (d)

Solutions (11-15):

| Floor | Person | Age |
|-------|--------|-----|
| 8     | O      | 46  |
| 7     | S      | 35  |
| 6     | N      | 30  |
| 5     | T      | 27  |
| 4     | M      | 26  |
| 3     | Q      | 19  |
| 2     | P      | 16  |
| 1     | R      | 11  |

11. (c) 12. (a) 13. (d) 14. (c) 15. (c)

Solutions (16-20):



16. (e) 17. (d) 18. (d) 19. (c) 20. (e)

Solutions (21-25):

|   |              |             |
|---|--------------|-------------|
| A | India        | Bowler      |
| B | West Indies  | Batsman     |
| C | New Zealand  | All Rounder |
| D | Australia    | All Rounder |
| E | Pakistan     | Bowler      |
| F | Srilanka     | Bowler      |
| G | South Africa | Batsman     |

21. (c) 22. (a) 23. (c) 24. (e) 25. (b)

26. (d) 'Graham'

Symbol: # for last letter m,

Alphabet: Opposite of third letter from the left - 2 = A = Z(opp) - 2 = X

Number: Total number of letter/2 = 6/2 = 3

(Only Integer value)

Hence, code of 'Graham' is '#x3'

27. (b) 'Firing not done'

'Firing'

Symbol: ! for last letter g

Number: Total number of letter/2 = 6/2 = 3(Only Integer value)

Alphabet: Opposite of third letter from the left - 2

R = I (Opp) - 2 = G

"!G3"

'not'

Symbol: % for last letter t

Number: Total number of letter/2 = 3/2 = 1 (Only Integer value)

Alphabet: Opposite of third letter from the left - 2 = T = G(opp) - 2 = E

"%E1"

'done'

Symbol: @ for last letter e.

Number: Total number of letter/2 = 4/2 = 2

(Only Integer value)

Alphabet: Opposite of third letter from the left - 2

= N = M(opp) - 2 = K

"@K2"

!G3 %E1 @K2

28. (c) 'Jingoism'

Symbol: # for last letter m

Number: Total number of letter/2 = 8/2 = 4

(Only Integer value)

Alphabet: Opposite of third letter from the left - 2

= N = M(opp) - 2 = K # K4

29. (b) Ultraviolet

Symbol: % for last letter t

Number: Total number of letter/2 = 11/2 = 5

(Only Integer value)

Alphabet: Opposite of third letter from the left – 2  
= T = G(Opp) – 2 = E '%E5'

30. (a) 'Sweet Raining'

'Sweet'

Symbol: % for last letter t

Number: Total number of letter/2 = 5/2 = 2

(Only Integer value)

Alphabet: Opposite of third letter from the left – 2  
= E = V(Opp) – 2 = T  
'%T2'

'Raining'

Symbol: ! for last letter g

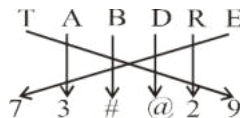
Number: Total number of letter/2 = 7/2 = 3

(Only Integer value)

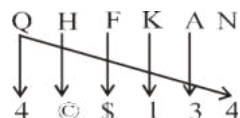
Alphabet: Opposite of third letter from the left – 2  
= I = R(Opp) – 2 = P  
'!P3'

Hence, code for 'Sweet Raining' is 'Y.T2!P3'

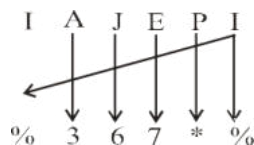
31. (b) Sol. Condition (2) applies



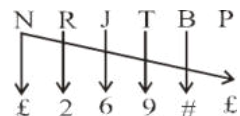
32. (a) Sol. Condition (1) applies



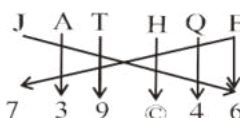
33. (c) Sol. Condition (3) applies



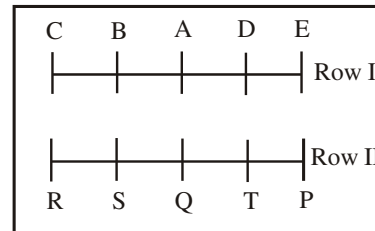
34. (d) Sol. Condition (1) applies



35. (a) Sol. Condition (2) applies



Solutions (36-40):



36. (c) 37. (e) 38. (d) 39. (e) 40. (b)

Solutions (41-45):

**Concepts for words arrangement:-** Words are arranged according to alphabetical order from right to left.

**Number arrangement:** Number are arranged in ascending order from left to right.

**Input:** fly 92 high 48 bird 74 tree 62 green 56

**Step I:** 48 fly 92 high 74 tree 62 green 56 bird

**Step II:** 56 48 92 high 74 tree 62 green bird fly

**Step III:** 62 56 48 92 high 74 tree bird fly green

**Step IV:** 74 62 56 48 92 tree bird fly green high

**Step V:** 92 74 62 56 48 bird fly green high tree

41. (d) 42. (e) 43. (d) 44. (a) 45. (b)

46. (a) In the statement it is given that army should be deployed to rehabilitate the people displaced due to earthquake. It means that army can be used for purposes other than war also. So, assumption I is implicit. Assumption II is not implicit because the word 'only' is making it baseless as there may be some other measures which can rehabilitate the displaced victims of earthquake.

47. (e) It is clear that train can be stopped by pulling the chain. There is a penalty for improper use. So, some people may misuse the chain. So, assumption I and II both are implicit.

48. (b) Argument I is not strong because it does not tell that why the grievances of people will increase. Argument II is strong because it will reduce the power theft which has resulted in a huge amount of losses.

49. (a) Argument I is strong because competition increases the quality of service. From the Argument II it is not clear that railways is a non-profitable sector and private companies are also operating in non-profitable sectors. So, Argument II is not strong.

50. (b) Course of action I does not follows due to the words 'all' and 'immediate'. Course of action II follows because a system should be implemented to certify the quality of tiffin provided by the school.

51. (c) A is a triangle

$$\text{Area of } A = \frac{1}{2} \times 16 \times 12 = 96$$

$$\therefore \text{ Required Cost} = 96 \times 50 = \text{` 4800.}$$

52. (a) Required difference =  $60 \times 18 - (2(30) \times 15)$   
=  $60 \times 3 = \text{` 180.}$

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53. (d) Required Ratio =  $(20 \times 12) \times 60 : 2 (20 + 12) \times 25$   
 $= 14400 : 1600 = 9 : 1$

54. (d) Cost of fencing of E =  $2 \times \frac{22}{7} \times 10 \times 22 = ₹ 1382.85$   
 Cost of flooring of C =  $15 \times 15 \times 40 = ₹ 9000$ .

$$\text{Required \%} = \frac{1382.85}{9000} \times 100 = 15.36 \%$$

55. (b) Required % =  $\frac{15 \times 4 \times 18 \times 100}{(40 \times 15 \times 15)} = 12 \%$

56. (d) Let marked price be ₹  $x$

$$\therefore \text{Selling price} = \frac{9x}{100}$$

$$\text{But selling price} = 2160 \times \frac{125}{100} = ₹ 2700$$

$$\therefore \text{Marked price} = 2700 \times \frac{100}{90} = ₹ 3000$$

57. (c) Let present ages of Ritu and Priya are  $3x$  and  $5x$  respectively.

$$\text{ATQ, } \frac{3x+6}{5x+6} = \frac{2}{3} \Rightarrow 9x + 18 = 10x + 12$$

$$\Rightarrow x = 6 \text{ years}$$

$$\therefore \text{Present age of Priya} = 30 \text{ years}$$

58. (a) Let speed of stream =  $S$  km/hr

$$\therefore (12 - S) \times 4 = 36$$

$$\Rightarrow S = 3 \text{ km/hr}$$

59. (c) Let sum be ₹  $P$

$$\therefore P \left[ \left( 1 + \frac{10}{100} \right)^2 - 1 \right] = \frac{P \times 10 \times 2}{100} = 122$$

$$\Rightarrow \frac{P(21-20)}{100} = 122 \Rightarrow P = ₹ 12,200$$

60. (e) Let the investments of X, Y and Z respectively be 20000, 25000 and 30000

Let the investment period of Z be  $x$  months.

Ratio of annual investments

$$(20000 \times 12) : (25000 \times 12) : (30000 \times x) = 8 : 10 : x$$

The share of Z in the annual profit of ₹ 50000 is ₹ 14000

$$\left( \frac{x}{x+18} \right) \times 50000 = 14000$$

$$x = 7 \text{ months}$$

So, Z joined in the business after  $12 - 7 = 5$  months.

61. (b)

I.  $a^2 - 11a + 24 = 0$

$$a^2 - 8a - 3a + 24 = 0$$

$$a(a - 8) - 3(a - 8) = 0$$

$$(a - 8)(a - 3) = 0$$

$$a = 8, 3$$

II.  $b^2 + 3b - 18 = 0$

$$b^2 + 6b - 3b - 18 = 0$$

$$b(b + 6) - 3(b + 6) = 0$$

$$(b - 3)(b + 6) = 0$$

$$b = 3, -6$$

$$a \geq b$$

62. (e)

I.  $2a^2 + 17a + 35 = 0$

$$2a^2 + 10a + 7a + 35 = 0$$

$$2a(a + 5) + 7(a + 5) = 0$$

$$(2a + 7)(a + 5) = 0$$

$$a = -\frac{7}{2}, -5$$

II.  $3b^2 + 17b + 24 = 0$

$$3b^2 + 9b + 8b + 24 = 0$$

$$3b(b + 3) + 8(b + 3) = 0$$

$$(b + 3)(3b + 8) = 0$$

$$b = -3, -\frac{8}{3}$$

$$b > a$$

63. (b)

I.  $a^2 + 72 = 108$

$$a^2 = 108 - 72 = 36$$

II.  $\frac{a^3 + 6}{b^3 + 581} = 365$

$$b^3 = -216$$

$$b = -6$$

$$a \geq b$$

64. (a) The concentration of Alcohol in final solution,

$$\frac{3}{10} \times \left( 1 - \frac{6}{60} \right) \times \left( 1 - \frac{5}{60} \right) \times 100 = 24.75 \%$$

Hence, (A) is the correct option.

65. (a) We know that  $\frac{S_1}{S_2} = \sqrt{\frac{t_2}{t_1}} = \frac{8}{5} = \sqrt{\frac{t_2}{3.5}}$

$$= \frac{64}{25} = \frac{t_2}{3.5} \Rightarrow t_2 = 8.96 \text{ hours}$$

66. (b) Let numbers be  $3x$  &  $5x$

ATQ,

$$\frac{3x \times \frac{120}{100}}{5x \times \frac{75}{100}} = \frac{24}{25}$$

67. (b) Age of Mr. Aditya =  $\frac{120}{100} \times 25 = 30$  years  
 $\therefore$  Average age of children =  $\frac{1}{2} \times (20 \times 4 - 55)$   
 $= 12.5$  years

68. (d) Let rate of stream is  $s$  km/h.

$$\therefore \frac{18}{(8-s)} + \frac{18}{(8+s)} = 6$$

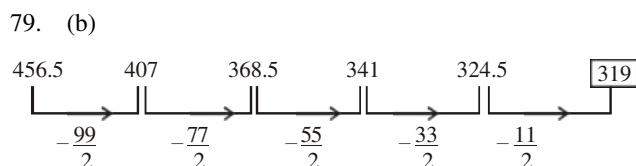
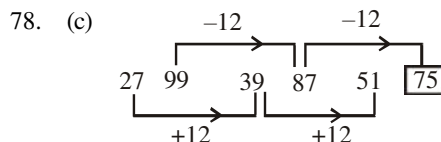
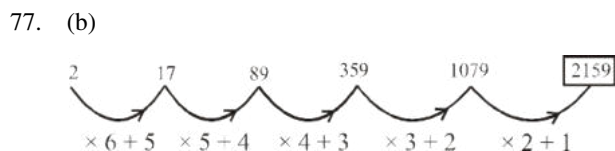
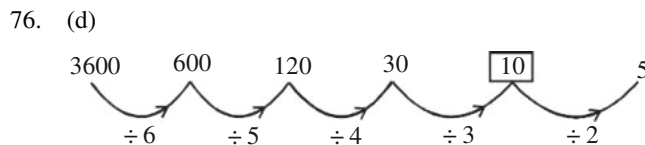
$$\Rightarrow 18 \times (8+s+8-s) = 6(64-s^2)$$

$$\Rightarrow s^2 = 16 \Rightarrow s = \pm 4 \text{ km/h.}$$

69. (d) From statement A  
 $\angle ABC = 180^\circ - (\angle BAC + \angle ACB)$   
 $= 180^\circ - (90^\circ + 35^\circ) = 55^\circ$   
 From statement B,  $\angle ABC = 55^\circ$

70. (a) Principal = 6000  
 A. S.I = 3600  
 $T = 4$  years  
 $\text{Rate} = \frac{3600 \times 100}{6000 \times 4} = 15\%$   
 B. CI - SI = ₹894.0375  
 So, we can find rate from statement A, but statement B is not sufficient.

71. (b) 72. (c) 73. (d) 74. (b) 75. (c)



80. (d) The pattern is;

$$24 + 8^3 = 24 + 512 = 536$$

$$536 - 7^2 = 536 - 49 = 487$$

$$487 + 6^3 = 487 + 216 = 703$$

$$703 - 5^2 = 703 - 25 = 678$$

$$678 + 4^3 = 678 + 64 = 742$$

81. (c) Required number of male tourist visited of Goa and MP together

$$= \frac{13}{14} \times \frac{28}{100} \times 1800 + \frac{12}{23} \times \frac{23}{100} \times 1800$$

$$= 468 + 216 = 684$$

82. (e) Required percentage of female tourist

$$= \frac{\left( \frac{11}{23} \times \frac{23}{100} \times 1800 \right)}{1800} \times 100 = 11\%$$

83. (c) Number of female tourist who visited of Uttarakhand and jammu & Kashmir together

$$= \frac{5}{7} \times 1800 \times \frac{14}{100} + \frac{12}{17} \times \frac{17}{100} \times 1800$$

$$= (180 + 216) = 396$$

And, Total no. of tourist who visited of these states

$$= \frac{14}{100} \times 1800 + \frac{17}{100} \times 1800 = 558$$

$$\therefore \text{Required ratio} = \frac{396}{558} = 22:31$$

84. (c) Required average

$$= \frac{1}{5} \left( \frac{13}{14} \times 28 + \frac{2}{7} \times 14 + \frac{12}{23} \times 23 + \frac{5}{6} \times 18 + \frac{5}{17} \times 17 \right) \times 18$$

$$= \frac{1}{5} (468 + 72 + 216 + 270 + 90) = 223.2 ; 223$$

85. (b) Male tourist who visited Goa

$$= \frac{13}{14} \times 1800 \times \frac{28}{100} = 468$$

Total tourist who visited Goa

$$= \frac{28}{100} \times 1800 = 504$$

$$\therefore \text{Required percentage} = \frac{468}{504} \times 100 = 92 \frac{6}{7} \%$$

Alternate,

$$\therefore \text{Required percentage} = \frac{13}{14} \times 100 = 92 \frac{6}{7} \%$$



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**Solutions (86-90):**

86. (d) Data are insufficient to determine the required ratio.  
 87. (b) Ratio of number of coconut trees and lemon trees = 5 : 1, therefore number of coconut trees is 500, since revenue generated from coconut trees is ₹ 1,80,000.

$$\text{Hence value per trees} = \frac{1,80,000}{500} = ₹ 360$$

88. (a) Since revenue of ₹ 3,00,000 is equally divided by Gopal and Ram. Hence, amount received by Gopal in

$$1997 = \frac{1}{2} \times 3,00,000 = ₹ 1,50,000.$$

89. (a) The value of lemon output per acre of land

$$= \frac{1,20,000}{5} = 0.24 \text{ lakh/acre.}$$

90. (b) Let the amount invested by Gopal and Ram be  $2x$  and  $3x$  respectively.

Gopal further invested ₹ 2 lakh.

Acc, to question

$$(2x + 2) = 3x \text{ or } x = 2 \text{ lakh.}$$

Hence, initial amount paid by Gopal and Ram to Krishna is 4 lakh and 6 lakh respectively.

Hence, total, money invested by them together =  $(6 + 6) = 12$  lakh.

The total revenue generated =  $12 \times 25\% = 3$  lakh.  
 Also The ratio of revenue from coconut and lemon trees are in the ratio 3 : 2,

Hence, revenue from coconut = ₹ 1,80,000 and revenue from lemons = ₹ 1,20,000, so total output of

$$\text{coconut} = \frac{1,80,000}{5} = ₹ 36,000.$$

91. (a) No. of students from class X who visited Manali

$$= \frac{60}{100} \times 250 = 150$$

No. of girls from class X who visited Manali

$$= \frac{7}{15} \times 150 = 70$$

Total no. of students from class X who went to a tourist place

$$\frac{20}{100} \times 150 + \frac{30}{100} \times 200 + \frac{60}{100} \times 250 + \frac{26}{100} \times 350 + \frac{20}{100} \times 200$$

$$= 30 + 60 + 150 + 91 + 40 = 371$$

$$\text{Required \%} = \frac{70}{371} \times 100 \approx 19\%$$

92. (b) No of students from class XI who didn't visit any place

$$= 480 - \left( \frac{50}{100} \times 150 + \frac{50}{100} \times 200 + \frac{30}{100} \times 250 + \frac{40}{100} \times 350 + \frac{30}{100} \times 200 \right)$$

$$= 480 - (75 + 100 + 75 + 140 + 60)$$

$$= 480 - 450 = 30$$

No of students from XII who didn't visit any place

$$= 400 - \left( \frac{30}{100} \times 150 + \frac{20}{100} \times 200 + \frac{10}{100} \times 250 + \frac{34}{100} \times 350 + \frac{50}{100} \times 200 \right)$$

$$= 400 - (45 + 40 + 25 + 119 + 100)$$

$$= 400 - (329) = 71$$

$$\text{Required Difference} = 71 - 30 = 41$$

93. (c) Using solution of previous question,

$$\text{Required \%} = \frac{71}{200} \times 100 = 35.5\%$$

94. (d) No of students who visited Manali from class XI

$$\text{and XII} = \frac{30 + 10}{100} \times 250 = 100$$

No of students from class X who visited Shimla, Ooty and Nainital =  $30 + 60 + 40 = 130$

$$\text{Required \%} = \frac{100}{130} \times 100 \approx 77\%$$

95. (d) From Class X:

$$420 - \left( \frac{20}{100} \times 150 + \frac{30}{100} \times 200 + \frac{60}{100} \times 250 + \frac{26}{100} \times 350 + \frac{20}{100} \times 200 \right)$$

$$= 420 - 30 - 60 - 150 - 91 - 40 = 49$$

From class XI: 30

From class XII: 71

$$\text{So required number} = 49 + 30 + 71 = 150$$

96. (a)

I.  $A = a + \text{or} - nd$

$$14 + (37 \times 1) = 14 + 37 = 51 \text{ yrs.}$$

II.  $35 + (20 \times 0.5) = 35 + 10 = 45 \text{ yrs.}$

97. (a)

I. If the no of article bought is LCM of 6 and 5 is 30

$$\text{CP of 30 articles} = \frac{5}{6} \times 30 = ₹ 25$$

$$\text{SP of 30 articles} = \frac{6}{5} \times 30 = ₹ 36$$

$$\text{Profit } 36 - 25 = 11$$

$$\text{Profit \%} = \frac{11}{25} \times 100 = 44\%$$

II. CP of 1 toy =  $350/100 = 3.50$

$$\text{SP of 1 toy} = \frac{48}{12} = 4.$$

$$\text{Profit} = 4 - 3.5 = 0.5.$$

$$\text{Profit \%} = \frac{0.5}{3.5} \times 100 = 14 \frac{2}{7}\%$$

98. (c)

I. C.P. of 12 balls = S.P. of 17 balls = ₹ 720.

$$\text{CP of 1 ball} = \frac{720}{12} = ₹ 60.$$

II. SP = 85% of 1400 =  $\frac{85}{100} \times 1400 = ₹ 1190.$

99. (a)  
I. B work =  $1/4 - 1/6 = 2/24 \Rightarrow 12$  days  
II. A's 1hr work  $1/4$ .  
(B + C's) 1 hr work  $1/3$ .  
(A + C's) 1hr work  $1/2$ .  
A + B + C 1hr work =  $1/4 + 1/3 = 7/12$ .  
B's work =  $7/12 - 1/2 = 1/12$   
12hours.
100. (c)  
I. Total time taken =  $(160/64 + 160/80) = 9/2$ hrs  
Then avg speed =  $320/(9/2)$   
=  $320 \times 2/9 = 71.11$ km/hr.  
II.  $(2 \times 60 \times 90)/150 = 72$ km/hr.
101. (a) 1, 3 and 4 are stated in the third paragraph.  
102. (d) Refer to the last line of the first paragraph, the second paragraph and the last line of the passage.  
103. (c) Refer to the part it reminded the British vividly.  
104. (a) Refer to the part it was supposedly for the good of the conquered.  
105. (c) Refer to the part India would resist payment, and paralyze the war effort.  
106. (e) 107. (e) 108. (c) 109. (a) 110. (a) 111. (c)  
112. (e) 113. (a) 114. (c) 115. (c) 116. (c) 117. (a)  
118. (d) 119. (b)  
120. (d) As a study report is not a legal document as it is not binding on anyone. Sentence represents study in a lighter vein so it must not be taken seriously but as the study is done, there must be some purpose of it and the result at least is taken note of. This logic brings to the option (d) which is the correct part to complete the incomplete sentence of passage.  
121. (a) Only option (a) seems to be logical for the context. As subsequent part of passage shows how it was a problem to bail out one and to deny other the same resources. Option (d) and (e) are out of place.  
122. (a) It is the only logical option among the other options that do not follow any logic. If income is less than expenditure, then there is definitely a loss.  
123. (a) As the passage says that risk aggregation is new at the beginning of passage it can be inferred that most banks are yet to conceptualize it in their processes. Hence option (a) is correct. Option (c) is farfetched conclusion. Option (d) is repetition of what is being stated in passage earlier. So it cannot be the answer.  
124. (a) Passage is about nonresident Indian entity and its tax deduction. Other options are not in the context of passage as they talk about the things which are not given or can be inferred from the passage.  
125. (b) Referred back is redundant. The prefix 're' means "back".  
126. (d) Option (a) is incorrect as it uses the adjective AFTER the noun it qualifies. Options (b) and (c) are eliminated as they change the meaning of the sentence. Hence, the correct options is (d).  
127. (c) The either... or structure should always be as close as possible to the things that they are attached to.
128. (e) No correction required  
129. (c) 'such players are normally' as earlier in the sentence a description about the players has been given.  
130. (e) 131. (c) 132. (a) 133. (d) 134. (e)  
135. (b) 136. (b) 137. (b) 138. (c) 139. (c)  
140. (b)  
141. (d) Imphal, Manipur  
142. (a) Collateralized  
143. (c) Suresh Mathur  
144. (e) Kabaddi  
145. (b) Switzerland  
146. (e) Beijing  
147. (d) Paytm  
148. (c) USA  
149. (b) Bhutan  
150. (d) All of the above  
151. (b) Sochi  
152. (d) NPCI  
153. (a) Beat Plastic Pollution  
154. (e) Sanskrit  
155. (c) Rani Rampal  
156. (a) Madhya Pradesh  
157. (b) Madagascar  
158. (c) Equatorial Guinea  
159. (b) 31st March 2020  
160. (a) Remittance  
161. (d) United States, Canada, Mexico  
162. (a) Toilet: Ek Prem Katha  
163. (c) IDBI Bank  
164. (e) 29th June  
165. (b) New Delhi  
166. (c) Mumbai  
167. (e) Uttar Pradesh  
168. (a) Ministry of Culture  
169. (d) 115  
170. (b) Airtel  
171. (e) Rising Kashmir  
172. (d) IIM-Ahmedabad  
173. (a) Nepal  
174. (c) Salvage  
175. (b) ` 65,000 crore  
176. (a) Credit Risk  
177. (b) Telangana  
178. (c) Odisha  
179. (d) Manila, Philippines  
180. (a) Uttar Pradesh  
181. (c) Uttarakhand  
182. (a) 27th June  
183. (d) Liquidity  
184. (b) Bhopal  
185. (e) Zambia  
186. (e) \$100million  
187. (a) ` 80,000 crore  
188. (c) West Indies  
189. (b) Ministry of Women and Child Development  
190. (d) Kharagpur

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## Reasoning Ability

**DIRECTIONS (Qs. 1-3):** Read the information carefully and answer the questions:

An Organisation Hare Krishna printed different number of books in different years 1943, 1956, 1987, 1998, 2002 such that number of books printed are not same in any year. 66 books were printed in an odd numbered year which is not 1943. The number of books printed in 1943 is 10 less than that printed in 1987. 59 books were printed in an year before the year in which 61 books are printed but not immediate before. The number of books printed in 2002 is 2 more than that printed in 1998.

- How many books were printed in 1943?
  - 56
  - 66
  - 63
  - 61
  - None of these
- What is the difference between the number of books printed in 1956 and 2002?
  - 7
  - 10
  - 8
  - 4
  - None of these
- In how many years the number of books printed are more than that printed in 1998?
  - two
  - one
  - none
  - three
  - four
- How many words can be formed from the 1<sup>st</sup>, 6<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> letter of a word 'EMANICIPATE' by using each letter once in the word?
  - two
  - one
  - none
  - three
  - More than three
- If all the letters in the word FIGURES are arranged in alphabetical order from left to right in such a way that vowels are arranged first followed by consonants, then how many letters are there in between U and R after the arrangement?
  - two
  - one
  - none
  - three
  - four
- If in the number 39682147, 1 is added to each of the digit which is less than five and 1 is subtracted from each of the digit which is greater than five then how many digits are repeating in the number thus formed?
  - two
  - one
  - none
  - three
  - four

**DIRECTIONS (Qs. 7-8):** Read the information given below and answer the questions.

All the given members belong to the same the family. A is the brother of L. A is the only son of R. W is the father-in-law of L. D is the maternal grandfather of P, who is a male. Q is the only son of W. W is the grandfather of N and C is the daughter of N.

- How L is related to C?
  - Mother
  - Son
  - Brother
  - Father
  - None of these
- How is P related to N?
  - Mother
  - Son
  - Brother
  - Father
  - None of these

**DIRECTIONS (Qs. 9-11):** Read the information carefully and answer the question:

Point B is 10 m north of point Q. Point T is 10 m east of point B. Point S is 15 m south of point T. Point P is 20 m south of point Q. Point R is 25 m east of point P. Point L is 15 m east of point S. Point M is the midpoint of point B and P.

- What is the distance between point L and R?
  - 10 m
  - 15 m
  - 5 m
  - 20 m
  - 25 m
- In which direction is point T with respect to P?
  - north-west
  - south-west
  - south-east
  - north-east
  - none of these
- Which of the following points are inline?
  - P, R, S
  - Q, M, L
  - B, S, T
  - M, S, L
  - Q, S, L

**DIRECTIONS (Qs. 12-16):** Read the following information carefully and answer the given questions.

Twelve persons sitting in two rows. D, A, F, K, L and M sitting in row-1 and facing north. S, T, R, X, Y and Z sitting in row-2 and facing south direction. A sits third from one of the extreme ends. S sits second to the left of the one who faces A. Only three persons sit between S and T. K sits somewhere right of M. More than three persons sit between X and T. F faces one of the immediate neighbours of T. Z sits second to the right of Y. The one who faces L sits third to the left of R. D faces S.

- Who among the following faces K?
  - T
  - S
  - X
  - Y
  - None of these
- Who among the following faces the immediate neighbor of M?
  - T
  - S
  - X
  - Y
  - None of these

- (a) Z (b) K  
(c) D (d) L  
(e) None of these
14. Four of the following five from a group, which among the following does not belong to this group?  
(a) T, A (b) R, D  
(c) Y, L (d) Z, A  
(e) Z, K
15. Who among the following faces the one who sit to the immediate left of Y?  
(a) R (b) D  
(c) X (d) Z  
(e) None of these
16. How many persons sit between M and D?  
(a) one (b) two  
(c) three (d) five  
(e) four
17. Five people C, K, X, Y, and Z live on five different floors of a building (such as ground floor numbered as 1 and top is numbered as 5). There are three floors between C and K. X lives immediate above the floors where c lives. Who among the following lives on third floor?  
(a) K (b) C  
(c) X (d) Z  
(e) Cannot be determined
18. Which of the following elements should come in a place ‘?’?  
AB4, CE6, FI9, JN13?  
(a) OT 20 (b) TO 21  
(c) OT 21 (d) TS 21  
(e) None of these

**DIRECTIONS (Qs.19-21):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement are sufficient to answer the question. Read both the statements and

**Given answer:**

- (a) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
(b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.  
(c) If the data either in statement I alone or in statement II alone are sufficient to answer the question.  
(d) If the data even in both statements I and II together are not sufficient to answer the question.  
(e) If the data in both statement I and II together are necessary to answer the question.
19. Who sits immediate to the left of Ram who is sitting in a row. All the persons who are sitting in a row are facing north direction?  
I. There are only two persons sit between Laxman and Hanuman. More than three persons sit to the left of Hanuman.  
II. Not more than 8 persons can sit in a row. Ram sits second to the left Laxman. Diya sits 6 places away from Hanuman.

20. What is the code of ‘right’ in a certain code language?  
I. The code of ‘every right to reject’ is ‘%47 \*32 \$53 \*95’,  
II. The code of ‘never reject right turn’ is ‘%62 %47 \$51 \*32’.
21. Find the number of boys and number of girls in the row?  
I. A sits 18<sup>th</sup> from left end of the row and Y sits 11<sup>th</sup> from the right end of the row. A and Y interchange their positions, after interchanging the position A’s position is 20<sup>th</sup> from left end.  
II. Total 43 students are in the row and all are facing is same direction.

**DIRECTIONS (Qs. 22-26):** Study the following arrangement carefully and answer the questions given below:

B 5 R 1 @ E K 4 F 7 © L A M 2 P 3 % 9 H I W 8 \* 6 U J \$ V Q #

22. Which of the following is the fifth to the left of the seventeenth from the left end of the above arrangement?  
(a) L (b) W  
(c) \* (d) 4  
(e) None of these
23. Which of the following is exactly in the middle between L and U in the above arrangement?  
(a) % (b) H  
(c) 9 (d) 3  
(e) None of these
24. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that does not belong to that group?  
(a) R1E (b) F7L  
(c) M23 (d) 9HW  
(e) UJ6
25. How many such symbols are there in the above arrangement each of which is immediately preceded by a number but not immediately followed by a consonant?  
(a) None (b) One  
(c) Two (d) Three  
(e) More than three
26. Which of the following is the tenth to the left end of the thirteenth from the right end?  
(a) F (b) M  
(c) @ (d) %  
(e) 3

**DIRECTIONS (Qs. 27-28):** Read the information carefully and answer the questions:

- Eight persons Q, B, C, D, E, F, G, H, are sitting around a circular table facing centre. H faces B. Two persons sit between F and B. E sits 2<sup>nd</sup> right to D. F sits 2<sup>nd</sup> right to C, who is one of the immediate neighbors of G. C is not an immediate neighbor of B.
27. Who among the following sits 3<sup>rd</sup> left to F?  
(a) D (b) C  
(c) B (d) Q  
(e) None of these

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28. Who among the following faces Q?
- (a) D (b) C  
(c) B (d) G  
(e) None of these

**DIRECTIONS (Qs. 29-30):** Study the following information carefully and answer the given questions.

In a certain code language,

'good key friends' is coded as 'xo pe ky'

'key law found' is coded as 'xo og bt'

'data key good' is coded as 'tu xo pe'

29. Which of the following is the code for 'good'?
- (a) xo (b) pe  
(c) tu (d) ky  
(e) None of these
30. Which of the following word is coded as 'og'?
- (a) law (b) good  
(c) found (d) Either (a) or (c)  
(e) key

**DIRECTIONS (Qs. 31-35):** The following questions are based on the six three digits numbers given below:

563, 426, 556, 491, 929

31. If 2 is subtracted from the second digit of all odd numbers and 2 is added in the first digit of all even numbers, then which number is lowest number after the arrangement?
- (a) 426 (b) 556  
(c) 491 (d) 929  
(e) None of these
32. If third digit of highest number is divided by the first digit of lowest number, then what will be the resultant?
- (a) 4 (b) 6  
(c) 2.25 (d) 5  
(e) None of these
33. If all the digits in each number are arranged in increasing order, then which number will be the highest number after the rearrangement?
- (a) 426 (b) 556  
(c) 491 (d) 563  
(e) None of these
34. How many numbers will be there in the given series in which addition of first and third digit is greater than second digit?
- (a) One (b) Two  
(c) Three (d) Four  
(e) None of these
35. How many numbers will be there in the given series in which difference of first and third digit is greater than second digit?
- (a) One (b) Two  
(c) Three (d) Four  
(e) None of these

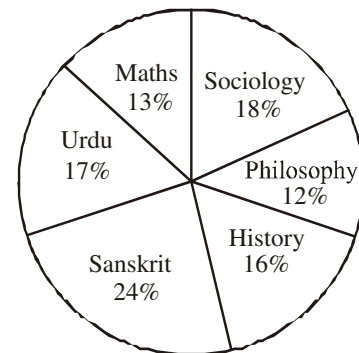
## Numerical Ability

**DIRECTIONS (Qs. 36-40):** What should come in place of question mark (?) in the following questions?

36. 28, 13, 11, 19, 72, ?  
(a) 571 (b) 251  
(c) 254 (d) 896  
(e) 260
37. 72, 36, 12, 6, 2, ?  
(a) 0.75 (b) 0.25  
(c) 0.5 (d) 45  
(e) 1
38. 19, 30, 43, 54, ?, 78  
(a) 62 (b) 64  
(c) 65 (d) 66  
(e) 67
39. 8, 251, 170, 197, 188, ?  
(a) 640 (b) 191  
(c) 187 (d) 190  
(e) 751
40. 178, ?, 112, 89, 70, 53  
(a) 215 (b) 217  
(c) 223 (d) 221  
(e) 141

**DIRECTIONS (Qs. 41-45):** Pie-chart given below shows total number of students who opted different subjects for exam in January 2018. Study the data carefully and answer the following questions:

Total students = 300



41. Total number of students who opted for Sociology and Philosophy together is how much less than total number of students who opted for Sanskrit and History together?
- (a) 24 (b) 27  
(c) 30 (d) 33  
(e) 36
42. Find the total number of students who gave exams in February 2018. If total number of students is increased by 20% in February 2018 as compared to January 2018.
- (a) 450 (b) 420  
(c) 390 (d) 330  
(e) 360



43. Find the central angle of total number of students who opted for History?  
 (a)  $57.6^\circ$  (b)  $54^\circ$   
 (c)  $50.4^\circ$  (d)  $43.2^\circ$   
 (e)  $64.8^\circ$
44. Find the average number of students who opted for Maths, Sociology and Sanskrit together?  
 (a) 54 (b) 55  
 (c) 56 (d) 57  
 (e) 58
45. Find the ratio between total number of students who opted for Urdu, History and Sociology together to total number of students who opted for Maths, Urdu and Sanskrit together?  
 (a) 8 : 9 (b) 17 : 19  
 (c) 15 : 16 (d) 17 : 18  
 (e) 5 : 6

**DIRECTIONS (Qs. 46-49):** What should come in place of question mark (?) in the following questions?

46.  $? = \sqrt{18 \times 32 + 11 \times 5 + 9 \times 5}$   
 (a) 26 (b) 24  
 (c) 28 (d) 27  
 (e) 35
47.  $32\% \text{ of } 420 + 36\% \text{ of } 540 = ?$   
 (a) 312 (b) 288  
 (c) 328.8 (d) 318  
 (e) 324
48.  $80\% \text{ of } 450 + 20\% \text{ of } 850 = ?$   
 (a) 540 (b) 580  
 (c) 530 (d) 560  
 (e) 555
49.  $\sqrt{7569} + \sqrt{?} = 104$   
 (a) 256 (b) 400  
 (c) 361 (d) 321  
 (e) 289
50. Present average age of Ram, Shyam and Rohit is 22 years. Three years ago, Average age of Shyam and Rohit is 18 years, then find Ram's age 9 years hence?  
 (a) 24 years (b) 27 years  
 (c) 30 years (d) 33 years  
 (e) 36 years
51. Ratio between speed of yacht in still water to speed of stream is 8 : 1. If 67.5km is travelled downstream in 2.5 hours then find the difference between speed of yacht in still water to speed of stream (in kmph)?  
 (a) 15 (b) 3  
 (c) 24 (d) 21  
 (e) 17.5
52. The perimeter of a rectangle whose length is 12m more than its breadth is 84 m. What will be the area of the rectangle? (in  $m^2$ )

- (a) 446 (b) 340  
 (c) 405 (d) 468  
 (e) 348
53. Interest earned on an amount after 2 years at 20% p.a compounded yearly is ` 3432. Find the interest earned on same amount after 3 years at 15% p.a at Simple interest.  
 (a) ` 1620 (b) ` 3510  
 (c) ` 1665 (d) ` 1710  
 (e) ` 1750
54. In place of 18% profit an article is sold at 32% profit and seller gets ` 112 more. Find the selling price of article if it were sold at 25% profit?  
 (a) ` 440 (b) ` 460  
 (c) ` 1000 (d) ` 550  
 (e) ` 525
55. Raja and Baja working alone can do a work in 20 days and 15 days respectively. They started the work together but Baja left after sometime and Raja finished remaining work in 6 days. Find after how many days from start Baja left the work?  
 (a) 5 days (b) 4 days  
 (c) 6 days (d) 3 days  
 (e) 7 days

**DIRECTIONS (Qs. 56-60):** In each of these questions, two equations are given. You have to solve both the equations and give answer

- (a) if  $x > y$  (b) if  $x \geq y$   
 (c) if  $x < y$  (d) if  $x \leq y$   
 (e) if  $x = y$  or no relation can be established between  $x$  and  $y$ .
56. (i)  $x^2 = 256$   
 (ii)  $y^2 + 2y - 48 = 0$
57. (i)  $x^2 - 11x + 28 = 0$   
 (ii)  $y^2 - 14y + 45 = 0$
58. (i)  $2x^2 - 5x + 3 = 0$   
 (ii)  $2y^2 - y - 1 = 0$
59. (i)  $x^2 - 17x + 72 = 0$   
 (ii)  $y = \sqrt{64}$
60. (i)  $x^2 - x - 132 = 0$   
 (ii)  $y^2 - 6y + 8 = 0$

**DIRECTIONS (Qs. 61-64):** What should come in place of question mark (?) in the following questions?

61.  $\sqrt{441} - \sqrt{169} = \sqrt{?}$   
 (a) 64 (b) 9  
 (c) 100 (d) 10  
 (e) 121

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62.  $81\frac{2}{3} - 7\frac{1}{4} = ? + 17\frac{2}{3}$
- (a) 9 (b)  $10\frac{1}{12}$
- (c)  $56\frac{3}{4}$  (d)  $9\frac{5}{6}$
- (e) 10
63.  $\sqrt{729} \times \sqrt{169} = ? + 50\%$  of 312
- (a) 160 (b) 150
- (c) 140 (d) 195
- (e) 120
64.  $15^2 + 72^2 = ? \times \sqrt[3]{2197}$
- (a) 127 (b) 416
- (c) 137 (d) 147
- (e) 153
65. The profit earned on selling two articles is ₹ 80 less than profit earned on selling three articles. If 25% profit is earned on selling one article, then find the cost price of the article?
- (a) ₹ 200 (b) ₹ 600
- (c) ₹ 1200 (d) ₹ 800
- (e) ₹ 320
66. **Quantity I:** 'x': Train 'A' running at a speed of 25 m/sec crosses Train 'B' coming from opposite direction running at a speed of 15 m/sec in 12 seconds. Length of train 'A' is twice of train 'B'. Length of train 'A' is 'x'
- Quantity II:** 160 meters.
- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I ≤ Quantity II
- (e) Quantity I = Quantity II or No relation
67. Average of three numbers  $k$ ,  $c$  and  $d$  is 1 more than average of  $a$ ,  $k$  and  $c$ . Average of  $a$  and  $d$  is 19.5
- Quantity I:** Number 'a'
- Quantity II:** 21
- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I ≤ Quantity II
- (e) Quantity I = Quantity II or No relation
68. **Quantity I:** 'x': A pipe alone can fill a cistern in 60 minutes. But due to leakage pipe filled only 80% of the cistern in 1 hour. 'x' is the capacity of cistern in liters if due to leakage 60 liter can be leaked out in 1 hour.
- Quantity II:** 250 liters
- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I ≤ Quantity II
- (e) Quantity I = Quantity II or No relation

69. **Quantity I:** 'x': Ratio between speed of boat in still water to speed of stream is 3 : 2. Total time taken by a man to cover 72km in upstream and come back is 32 hours. 'x' is the downstream speed in kmph

**Quantity II:** 9 kmph

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I ≤ Quantity II
- (e) Quantity I = Quantity II or No relation
70. **Quantity I:** 'x': Area of a square is 361 cm<sup>2</sup> whose perimeter is equal to perimeter of a rectangle. Length of rectangle is 4cm more than breadth of rectangle. 'x' is the area of rectangle
- Quantity II:** 357 cm<sup>2</sup>
- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I ≤ Quantity II
- (e) Quantity I = Quantity II or No relation

## English Language

**DIRECTIONS (Qs. 71-75):** Read the following passage carefully and answer the questions given below them. Certain words/phrases have been printed in bold to help you locate them while answering some of the questions.

Life is messy. If we want our best and brightest in the workforce, we need to accept that they have complex lives. We need to be flexible when it comes to the realities of balancing career and family. Being flexible at work doesn't just benefit people trying to balance their outside lives with work. An extensive body of research demonstrates the business benefits of flexible working. Yet despite this overwhelming evidence, access to flexible work and careers is not widespread. Flexible work is still regarded as an add-on, something we do for mothers for a few months when they are back from parental leave. But in the face of rapid changes to the way we work, organizations need to move beyond just having policies for flexible working or making ad-hoc adjustments for certain individuals. Companies need to fundamentally rethink the way they design work and jobs.

The World Economic Forum predicts that we are on the cusp of a fourth industrial revolution. Technological, socioeconomic and demographic shifts are transforming the way we work, demanding flexibility in the way individuals, teams and organizations work. We all have different things happening in our lives at different times. Not just caring for young kids, but other family members, community roles, study and volunteering. And all of these parts of our identities bring with them different skill sets. In today's workforce, fewer people identify with the stereotype of the ideal worker - a full-time, fully committed employee without personal or family commitments that impact on availability.

There are a few factors driving the demand for increased flexibility. Globalization is one. The development of a 24/7 marketplace, and the rapid expansion of the services economy are also having a transformational effect on the workplace, requiring organizations to think creatively about how they can best organize jobs and work to respond to an increasingly diverse and demanding customer base. Similarly technology is driving - and enabling - greater flexibility. It is dramatically reshaping our workplaces, blurring the boundaries between work and home and diversifying where, when and how employees work. Advances in mobile, internet and cloud technologies, the rapid development of computing power, and the digital connection between multiple objects have all driven workplace innovations such as remote working, telecommuting, co-working spaces, video/teleconferencing, and virtual teams and collaboration.

So the future of work demands new approaches to work design - but have workplaces risen to the challenge? The evidence suggests we have yet to grasp this opportunity to be more innovative. While some employers are making flexible work more available, there is still a high prevalence of bolted-on temporary arrangements. These arrangements are seen as the exception to the rule, with the full-time, "face-time", long hours "ideal worker" still the model to which everyone is expected to adhere. Many people make assumptions about flexible workers, including that they're not interested in training and development, aren't committed to the organization, or don't have any career aspirations. We need to explore and challenge these biases.

There are good international examples of successful work redesign that have involved the input of a team of employees. For example, a UK bakery sat down with their bakers and came up with a flexible system of two to three baking shifts a day to maintain a steady supply of fresh bread. The team agreed to rotate their hours each week so no team member permanently worked a shift that did not suit. After the change was made, bakery sales increased by more than 65% in the first year and employee satisfaction in the bakery has risen 10% since the change to 93%. So work redesign is not only doable, it can deliver business benefits, although it does require a completely new approach. By changing our thinking and focusing on the team and the organization as a whole, rather than the individual, we have the opportunity to create more adaptable and sustainable workplaces.

71. According to the author, how is flexible working still regarded as?
  - (a) the way of designing work and jobs.
  - (b) the way to identify the stereotype of an ideal worker.
  - (c) an add-on, something we do for mothers for a few months when they are back from parental leave.
  - (d) advances in mobile, internet and cloud technologies and the rapid development of computing power.
  - (e) None of these.
72. According to the passage, in today's workforce, which among the following is/are the stereotype(s) of an ideal worker?
  - (I) a full time worker
  - (II) an employee who is fully committed to work
  - (III) the employee has no personal or family commitments that impact his availability
  - (a) Only (II)
  - (b) Only (III)
  - (c) Both (II) and (III)
  - (d) Both (I) and (III)
  - (e) All of these.
73. According to the passage, how is technology driving and enabling greater flexibility?
  - (a) It is identifying the stereotype of an ideal worker.
  - (b) It is dramatically reshaping our workplaces, blurring the boundaries between work and home and diversifying where, when and how employees work.
  - (c) It is training the workers on how to transform the ways in which flexibility can be introduced
  - (d) It is one of the factors that is contributing in declining the demand for flexibility at the workplace worldwide.
  - (e) None of these
74. Which of the following were the steps taken by the UK Bakery with regards to the working time of their bakers?
  - (I) The UK Bakery came up with a flexible system of two to three baking shifts a day to maintain a steady supply of fresh bread.
  - (II) The Bakery team agreed to rotate their hours each week so no team member permanently worked a shift that did not suit.
  - (III) The bakery sales increased by more than 65% in the first year and employee satisfaction in the bakery has risen 10% since the change to 93%.
  - (a) Only (III)
  - (b) Both (I) and (III)
  - (c) Both (II) and (III)
  - (d) Both (I) and (II)
  - (e) All of these.
75. The most appropriate title of the passage is:
  - (a) Complex lives of the workforce
  - (b) Role of technology in increasing flexibility of workers
  - (c) The brightest workforce requires more flexible work
  - (d) How a UK Bakery increased their sales
  - (e) Importance of Globalization in increasing workforce
76. Choose the word which is most nearly the SAME in meaning to the word 'PREDICT' printed in bold as used in the passage.
  - (a) ignore
  - (b) forecast
  - (c) misunderstand
  - (d) recount
  - (e) narrate

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77. Choose the word which is most nearly the OPPOSITE in meaning to the word 'TEMPORARY' printed in bold as used in the passage.

- (a) substitute (b) alternate  
(c) expedient (d) provisional  
(e) permanent

**DIRECTIONS (Qs. 78-85):** Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The alphabet corresponding to that part is your answer. If there is 'No error', the answer is (e). (Ignore errors of punctuation, if any.)

78. The priest together with (A)/his followers were fatally injured (B)/in the accident which occurred last night (C)/near the unmanned railway crossing. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

79. The young woman who is watching television in that room (A)/lived here for more than (B)/a year but she has never created (C)/any problem for us. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

80. Each of the employees, (A)/whom the company has chosen to take part (B)/in the international seminar to be conducted (C)/in the City Hall, are up to the mark. (D)/ No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

81. Needless to say, (A)/no sooner were all these large and rather expensive operations finished (B)/when the main electricity was brought in (C)/and the turbine became obsolete. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

82. Plastic bags less than 50 microns thick (A)/are banned, (B)/but neither the states nor the city corporations (C)/cares to enforce this rule. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

83. Tribal angst over economic issues (A)/leading to the scapegoating of nontribal longtime residents (B)/reflects the continued failure (C)/to forge a more inclusive politics in Meghalaya. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

84. The Prime Minister has great power of (A)/implementing some useful (B)/schemes but the ministers (C)/have even greatest ability to foil them. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

85. The blunder mistake (A)/was the apparent failure of detectives (B)/to inform the Parole Board that the murderer (C)/had threatened to return to kill her. (D)/No Error (E)

- (a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Qs. 86-90):** In each question below some sentences are given which are divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named A, B, C and D. Rearrange the four parts of the sentence to make a coherent paragraph. The rearranged sequence of the parts will be your answer. If the given sentence is correct as it is then choose option (e).

86. Crashes in the early days (1)/ to be caused by technical faults, (A)/ of commercial jets tended (B)/ such as metal fatigue (C) /in the airframe or engines (D)

- (a) DCAB (b) ABCD  
(c) BACD (d) CABD  
(e) No arrangement required

87. There have been a lot of (1)/ drivers not obeying (A)/ complaints recently about (B)/ in downtown Boston (C)/ the speed limits (D)

- (a) BADC (b) ABCD  
(c) BCAD (d) CABD  
(e) No arrangement required

88. Chinese officials say (1)/ dropped to a three-year (A)/ low because of (B)/ economic growth has (C)/ the world economy (D)

- (a) BADC (b) CABD  
(c) BCAD (d) CABD  
(e) No arrangement required

89. I think it's a shame that (1)/ some foreign language teachers (A)/ studied with a native speaker (B)/ college without ever having (C)/ were able to graduate from (D)

- (a) BADC (b) CABD  
(c) BCAD (d) ADCB  
(e) No arrangement required

90. The Gita is a spiritual philosophy (1)/ addressed to all and we know that (A)/ there are all kinds of people, (B)/ each kind differing (C)/ quite significantly from the other (D)

- (a) BADC  
(b) CABD  
(c) BCAD  
(d) ADCB  
(e) No arrangement required

**DIRECTIONS (Qs. 91-95):** Given below are sentences with a blank in each. Identify the most suitable alternative among the five given that fits into the blank to make the sentence logical and meaningful.

91. In the same amount of time it would take me to correct all the \_\_\_\_\_ in your report, I could write a better report myself.  
(a) mistakes (b) problems  
(c) accuracies (d) obstacles  
(e) disputes
92. I have recently used the services of his \_\_\_\_\_ agency to book a cruise in the Mediterranean.  
(a) progress (b) deportation  
(c) travel (d) transfer  
(e) mover
93. They would like local authorities to be given greater \_\_\_\_\_ as to how the money is spent.  
(a) affairs (b) function  
(c) omission (d) discretion  
(e) statement
94. In a 10-billion-year-old galaxy there should have been ample \_\_\_\_\_ for at least one species to escape its own mess, and to spread across the stars, filling every niche.  
(a) negligence (b) opportunity  
(c) surveillance (d) supply  
(e) advocacy
95. A true \_\_\_\_\_ of the resources involved in sport would include the unpaid labour services.  
(a) growth (b) consideration  
(c) guidance (d) suggestion  
(e) estimation

**DIRECTIONS (Qs. 96-100):** In the question given below, there is a sentence in which one part is given in bold. The part given in bold may or may not be grammatically correct. Choose the best alternative among the four given which can replace the part in bold to make the sentence grammatically correct. If the part given in bold is already correct and does not require any replacement, choose option (e), i.e. "No replacement required" as your answer.

96. Despite of being most efficient method ever, it is still highly inefficient, and this inefficiency inspires hope.  
(a) Despite being the mostly efficient  
(b) Despite of being a most efficient  
(c) Despite of being the most efficient  
(d) Despite being the most efficient  
(e) No replacement required
97. A satisfactorily number of contestant must register for the contest in order for it to take place.  
(a) satisfactory number of contestants  
(b) satisfaction of number of contestants  
(c) satisfaction in the number of contestants  
(d) satisfactory number of contestant  
(e) No replacement required
98. The next class of wave or oscillation detector is the magnetic detector depending in the powers of electric oscillations to affect the magnetic state of iron.  
(a) depend on the power in  
(b) depending upon the power of  
(c) depends upon the power in  
(d) deepening upon the power of  
(e) No replacement required
99. James had teaching at the university for more than a year before he left for Asia.  
(a) was taught (b) had been taught  
(c) had been teaching (d) has been teaching  
(e) No replacement required
100. His tail was short and scraggly, and his harness had been broken in many places and fastened together again with cords and bits of wire.  
(a) was broke from  
(b) has broke from  
(c) have been broken in  
(d) have been breaking on  
(e) No replacement required

ANSWER KEY

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1  | (a) | 11 | (d) | 21 | (d) | 31 | (c) | 41 | (c) | 51 | (d) | 61 | (a) | 71 | (c) | 81 | (c) | 91  | (a) |
| 2  | (d) | 12 | (d) | 22 | (a) | 32 | (c) | 42 | (e) | 52 | (c) | 62 | (c) | 72 | (e) | 82 | (d) | 92  | (c) |
| 3  | (a) | 13 | (a) | 23 | (c) | 33 | (b) | 43 | (a) | 53 | (b) | 63 | (d) | 73 | (b) | 83 | (e) | 93  | (d) |
| 4  | (a) | 14 | (d) | 24 | (e) | 34 | (d) | 44 | (b) | 54 | (c) | 64 | (b) | 74 | (d) | 84 | (d) | 94  | (b) |
| 5  | (a) | 15 | (b) | 25 | (d) | 35 | (e) | 45 | (d) | 55 | (c) | 65 | (e) | 75 | (c) | 85 | (a) | 95  | (e) |
| 6  | (b) | 16 | (c) | 26 | (a) | 36 | (a) | 46 | (a) | 56 | (e) | 66 | (a) | 76 | (b) | 86 | (c) | 96  | (d) |
| 7  | (e) | 17 | (e) | 27 | (e) | 37 | (e) | 47 | (c) | 57 | (e) | 67 | (b) | 77 | (e) | 87 | (a) | 97  | (a) |
| 8  | (c) | 18 | (e) | 28 | (d) | 38 | (e) | 48 | (c) | 58 | (b) | 68 | (a) | 78 | (b) | 88 | (b) | 98  | (b) |
| 9  | (b) | 19 | (e) | 29 | (b) | 39 | (b) | 49 | (e) | 59 | (b) | 69 | (a) | 79 | (b) | 89 | (d) | 99  | (c) |
| 10 | (d) | 20 | (d) | 30 | (d) | 40 | (e) | 50 | (d) | 60 | (e) | 70 | (e) | 80 | (d) | 90 | (e) | 100 | (e) |



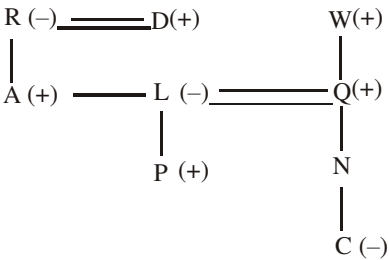
ANSWERS & EXPLANATIONS

Solutions (1-3):

| Years | Books |
|-------|-------|
| 1943  | 56    |
| 1956  | 59    |
| 1987  | 66    |
| 1998  | 61    |
| 2002  | 63    |

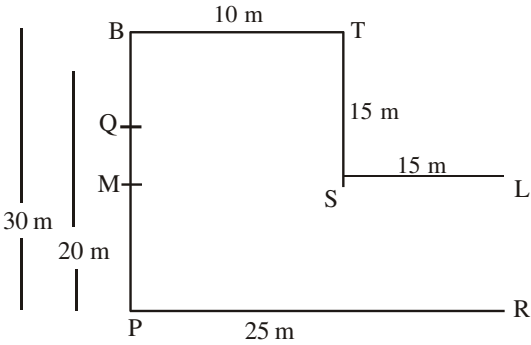
1. (a) 2. (d) 3. (a)
4. (a) The 1<sup>st</sup>, 6<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> letter of a word 'EMANICIPATE' are E, C, P, A So, the words formed are PACE and CAPE
5. (a) The given word is - FIGURES  
After the rearrangement - EIUFGRS  
So, the letters between U and R will be two.
6. (b) The given number is - 39682147  
After applied operation - 48573256  
So, only digit 5 is repeated in the number thus formed.

Solutions (7-8):



7. (e) 8. (c)

Solutions (9-11):



9. (b) 10. (d) 11. (d)

Solution (12-16):



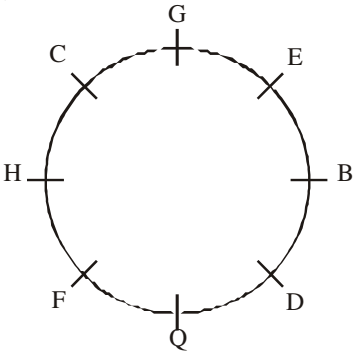
12. (d) 13. (a) 14. (d) 15. (b) 16. (c) 17. (e)

| Floors | Persons |
|--------|---------|
| 5      | K       |
| 4      | Y / Z   |
| 3      | Y / Z   |
| 2      | X       |
| 1      | C       |

18. (e) OT18
19. (e) From both the statements I and II we can find that Diya sits immediate to the left Ram  
Diya Ram Laxman Hanuman

20. (d) right can be coded either % 47 or \*32.
21. (d)
22. (a) 5<sup>th</sup> to left of 17<sup>th</sup> from left = 17 - 5 = 12<sup>th</sup> from left = L
23. (c) 9
24. (e) UJ6
25. (d) 1@, 3%, 8\*
26. (a)

Solutions (27-28):



27. (e) 28. (d)

Solutions (29-30):

| Word      | Code  |
|-----------|-------|
| friends   | ky    |
| key       | xo    |
| good      | pe    |
| law/found | og/bt |
| data      | tu    |

29. (b) 30. (d)

31. (c) 543 626 756 471 909

32. (c)  $\frac{9}{4} = 2.25$

33. (b) 356 246 556 149 299

34. (d) 563 426 556 929

35. (e)

36. (a)  $\begin{array}{cccccc} 28 & 13 & 11 & 19 & 72 & 571 \\ \hline \times 0.5 - 1 & \times 1 - 2 & \times 2 - 3 & \times 4 - 4 & \times 8 - 5 & \end{array}$

37. (e)  $\begin{array}{cccccc} 72 & 35 & 5 & 2 & 1 \\ \hline \div 2 & \div 3 & \div 2 & \div 3 & \div 2 & \end{array}$

38. (e)  $\begin{array}{cccccc} 19 & 30 & 43 & 54 & 67 & 78 \\ \hline +11 & +13 & +11 & +13 & +11 & \end{array}$

39. (b)  $\begin{array}{cccccc} 8 & 251 & 170 & 197 & 188 & 191 \\ \hline +243 & -81 & +27 & -9 & +3 & \end{array}$

40. (e)  $\begin{array}{cccccc} 178 & 141 & 112 & 89 & 70 & 53 \\ \hline -37 & -29 & -23 & -19 & -17 & \end{array}$

41. (c) Required difference

$$= \frac{(24+16) - (18+12)}{100} \times 300$$

42. (e) Total number of students who gave exam in Feb. 2018

$$= 300 \times \frac{120}{100} = 360$$

43. (a) Required central angle =  $16 \times 3.6 = 57.6^\circ$

44. (b) Required average

$$= \frac{1}{3} \left( \frac{13+18+24}{100} \right) \times 300 = 55$$

45. (d) Required Ratio

$$= \frac{17+16+18}{13+17+24} = \frac{51}{54} = \frac{17}{18}$$

46. (a)  $? = \sqrt{18 \times 32 + 11 \times 5 + 9 \times 5}$

$$? = \sqrt{576 + 100}$$

$$? = \sqrt{676}$$

$$? = 26$$

47. (c)  $? = \frac{32}{100} \times 420 + \frac{36}{100} \times 540$

$$? = 134.4 + 194.4$$

$$? = 328.8$$

48. (c)  $80\% \times 450 + 20\% \times 850 = ?$

$$? = 360 + 170$$

$$? = 530$$

49. (e)  $\sqrt{?} = 104 - \sqrt{7569}$

$$\sqrt{?} = 104 - 87$$

$$? = 17^2 = 289$$

50. (d) Sum of present ages of Ram, Shyam and Rohit = 66 years

Sum of present age of Shyam and Rohit

$$= 18 \times 2 + 6 = 42$$

Present age of Ram =  $66 - 42 = 24$

Ram's age nine years hence =  $24 + 9 = 33$  years

51. (d) Let speed of yacht in still water and speed of stream be  $8x$  and  $x$  respectively.

ATQ

$$\frac{67.5}{2.5} = 8x + x ; x = \frac{27}{9}$$

$$x = 3$$

Required difference =  $8x - x = 7x = 7 \times 3 = 21$

52. (c) Breadth of rectangle =  $x$  metre

Length =  $(x + 12)$  metre

$$\therefore 2(x + 12 + x) = 84$$

$$\Rightarrow 4x + 24 = 84$$

$$\Rightarrow 4x = 60$$

$$\Rightarrow x = 15$$

$$\therefore \text{Length} = 15 + 12 = 27 \text{ metre}$$

$$\therefore \text{Area of rectangle} = \text{Length} \times \text{Breadth}$$

$$= 27 \times 15 = 405 \text{ sq. metre}$$

53. (b) Overall rate for 2 years at 20% p.a compounded

$$\text{yearly is equivalent to } 20 + 20 + \frac{20 \times 20}{100} = 44\%$$

ATQ

44% of sum = 3432

100% of sum = 7800

$$\text{Simple interest earned} = \frac{7800 \times 15 \times 3}{100} = \text{` } 3510$$

54. (c) Let cost price of article =  $100x$

ATQ

$$32x - 18x = 112$$

$$14x = 112$$

$$x = 8$$

Cost price of article =  $8 \times 100 = 800$

$$\text{Selling price to earn 25\% profit} = 800 \times \frac{125}{100} = 1000$$

55. (c)

|                 |            |    |
|-----------------|------------|----|
| Efficiency      | Total work |    |
| 3 ← Raja → 20   |            | 60 |
| + 4 ← Baja → 15 |            |    |
| 7 ← A + B       |            |    |

Work done by Raja in last 6 days =  $6 \times 3 = 18$  work.

Remaining work done by Raja + Baja

$$= 60 - 18 = 42 \text{ work}$$

$$\text{Baja left the work after} = \frac{42}{7} = 6 \text{ days.}$$

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56. (e)  
 (i)  $x^2 = 256$   
 $x = \pm 16$   
 (ii)  $y^2 + 2y - 48 = 0$   
 $y^2 + 8y - 6y - 48 = 0$   
 $y(y + 8) - 6(y + 8) = 0$   
 $(y - 6)(y + 8) = 0$   
 $y = 6, -8$   
 No relation can be established between  $x$  and  $y$
57. (e)  
 (i)  $x^2 - 11x + 28 = 0$   
 $x^2 - 7x - 4x + 28 = 0$   
 $x(x - 7) - 4(x - 7) = 0$   
 $(x - 7)(x - 4) = 0$   
 $x = 7, 4$   
 (ii)  $y^2 - 14y + 45 = 0$   
 $y^2 - 9y - 5y + 45 = 0$   
 $y(y - 9) - 5(y - 9) = 0$   
 $(y - 5)(y - 9) = 0$   
 $y = 5, 9$   
 No relation can be established between  $x$  and  $y$
58. (b)  
 (i)  $2x^2 - 5x + 3 = 0$   
 $2x^2 - 3x - 2x + 3 = 0$   
 $x(2x - 3) - 1(2x - 3) = 0$   
 $(x - 1)(2x - 3) = 0$   
 $x = 1, 3/2$   
 (ii)  $2y^2 - y - 1 = 0$   
 $2y^2 - 2y + y - 1 = 0$   
 $2y(y - 1) + 1(y - 1) = 0$   
 $(2y + 1)(y - 1) = 0$   
 $y = -\frac{1}{2}, 1$  ;  $x \geq y$
59. (b)  
 (i)  $x^2 - 17x + 72 = 0$   
 $x^2 - 9x - 8x + 72 = 0$   
 $x(x - 9) - 8(x - 9) = 0$   
 $(x - 8)(x - 9) = 0$   
 $x = 8, 9$   
 (ii)  $y = \sqrt{64}$   
 $y = 8$   
 $x \geq y$
60. (e)  
 (i)  $x^2 - x - 132 = 0$   
 $x^2 - 12x + 11x - 132 = 0$   
 $x(x - 12) + 11(x - 12) = 0$   
 $(x - 12)(x + 11) = 0$   
 $x = 12, -11$   
 (ii)  $y^2 - 6y + 8 = 0$   
 $y^2 - 2y - 4y + 8 = 0$   
 $y(y - 2) - 4(y - 2) = 0$   
 $(y - 2)(y - 4) = 0$   
 $y = 2, 4$   
 No relation can be established between  $x$  and  $y$
61. (a)  $\sqrt{441} - \sqrt{169} = \sqrt{?}$   
 $21 - 13 = \sqrt{?}$   
 $8 = \sqrt{?}$   $? = 64$

62. (c)  $81\frac{2}{3} - 7\frac{1}{4} = ? + 17\frac{2}{3}$   
 $81 - 7 + \frac{2}{3} - \frac{1}{4} = ? + 17 + \frac{2}{3}$   
 $57 + \frac{2}{3} - \frac{1}{4} - \frac{2}{3} = ?$   
 $? = 56\frac{3}{4}$
63. (d)  $\sqrt{729} \times \sqrt{169} = ? + 50\%$  of 312  
 $27 \times 13 = ? + \frac{50}{100} \times 312$   
 $351 = ? + 156$   
 $? = 195$
64. (b)  $15^2 + 72^2 = ? \times \sqrt[3]{2197}$   
 $225 + 5184 = ? \times 13$   
 $\frac{5409}{13} = ?$   
 $? \approx 416$
65. (e) Let cost price of article =  $100x$   
 Selling price of one article =  $125x$   
 ATQ  
 $3 \times 25x - 2 \times 25x = 80$   
 $25x = 80$   
 $x = \frac{16}{5}$   
 Cost price of article =  $\frac{16}{5} \times 100 = 320$
66. (a) **Quantity I:**  
 Length of train 'A' =  $x$   
 Length of train 'B' =  $0.5x$   
 ATQ  
 $x + 0.5x = 12 \times (25 + 15)$   
 $1.5x = 480$   
 $x = 320$  meters  
**Quantity II:** 160 meters  
**Quantity I > Quantity II**
67. (b) Let average of  $a$ ,  $k$  and  $c$  be  $x$   
 $a + k + c = 3x$   
 And  $k + c + d = 3x + 3$   
 $\Rightarrow d - a = 3$   
 And,  $d + a = 39$   
 $d = 21$  and  $a = 18$   
**Quantity I:**  
 $a = 18$   
**Quantity II:** 21  
**Quantity II > Quantity I**
68. (a) **Quantity I:** Due to leakage only 80% of the cistern is filled this means 20% of tank is leaked out by leakage which is equal to 60 liters  
 $20\% = 60$   
 $100\% = 300$  liters  
 Capacity of tank = 300 liters  
**Quantity II:** 250 liters  
**Quantity I > Quantity II**

69. (a) **Quantity I:**  
Let speed of boat in still water and speed of stream be  $3x$  and  $2x$  respectively  
ATQ  
$$\Rightarrow 32 = \frac{72}{3x} + \frac{72}{2x}$$
$$\Rightarrow x = \frac{60}{32}$$
  
Downstream speed =  $3x + 2x = 5x$   
$$= 5 \times \frac{60}{32} = 9.37 \text{ kmph}$$
  
**Quantity II: 9 kmph**  
**Quantity I > Quantity II**
70. (e) **Quantity I:**  
Side of square =  $\sqrt{361} = 19 \text{ cm}$   
Let length of rectangle be  $x$  and breadth of rectangle be  $(x - 4) \text{ cm}$   
ATQ  
$$(x + x - 4) = \frac{4 \times 19}{2} = 38$$
$$x = 21$$
  
Area of rectangle =  $21 \times 17 = 357 \text{ cm}^2$   
**Quantity II:  $357 \text{ cm}^2$**   
**Quantity I = Quantity II**
71. (c) Refer to the first paragraph of the passage where it is clearly mentioned, "Yet despite this overwhelming evidence, access to flexible work and careers is not widespread. Flexible work is still regarded as an add-on, something we do for mothers for a few months when they are back from parental leave." Hence, option (c) will be the correct answer.
72. (e) Refer to the second paragraph of the passage where it is mentioned, "In today's workforce, fewer people identify with the stereotype of the ideal worker - a full-time, fully committed employee without personal or family commitments that impact on availability". Hence, option (e) will be the correct answer.
73. (b) Refer to the third paragraph of the passage where it is mentioned, "Similarly, technology is driving - and enabling - greater flexibility. It is dramatically reshaping our workplaces, blurring the boundaries between work and home and diversifying where, when and how employees work". Hence, option (b) will be the correct answer.
74. (d) Refer to the last paragraph of the passage where it is mentioned, "For example, a UK bakery sat down with their bakers and came up with a flexible system of two to three baking shifts a day to maintain a steady supply of fresh bread. The team agreed to rotate their hours each week so no team member permanently worked a shift that did not suit. After the change was made, bakery sales increased by more than 65% in the first year and employee satisfaction in the bakery has risen 10% since the change to 93%." Option (III) will not be the answer because it was the result of the steps taken by the bakery, not the step itself. Hence, option (d) will be the correct answer.
75. (c) Option (c), i.e. "The brightest workforce requires more flexible work" is the most appropriate title of the passage.
76. (b) Predict means say or estimate that (a specified thing) will happen in the future or will be a consequence of something. Forecast has the same meaning as predict. Hence, option (b) will be the correct answer. Recount means tell someone about something; give an account of an event or experience. Narrate means give a spoken or written account of.
77. (e) Temporary means lasting for only a limited period of time; not permanent. Permanent has the most opposite meaning to temporary. Hence, option (e) will be the correct answer. Expedient means (of an action) convenient and practical although possibly improper or immoral. Provisional means arranged or existing for the present, possibly to be changed later.
78. (b) In the second part of the sentence, the word "were" will be replaced by the word "was" because when two subjects are combined with 'together with', the main subject is the one which is written before together with, and the verb follows the main subject. All other parts of the sentence are correct. Hence, option (b) will be the correct answer.
79. (b) In the second part of the sentence, the word "lived" will be replaced by "has lived" or "has been living" because "is watching" used in first part of the sentence and "has never created" used in the third part of the sentence signify that the sentence is in present tense. Hence, option (b) will be the correct answer.
80. (d) In the fourth part of the sentence, "are" should be replaced by "is" because the subject of the statement starts with "Each of" and such sentences always follow singular Verb. Hence, option (d) will be the correct answer.
81. (c) In the third part of the sentence, "when" will be replaced by "than" because 'No sooner' is always followed by 'than' and 'Hardly/Scarcely' is followed by 'when/before'. Hence, option (c) will be the correct answer.
82. (d) In the fourth part of the sentence, "cares" should be replaced by "care" because if two subjects are combined using 'Either...or' or 'Neither...nor' then the verb always follows the subject near to it, which in this case is 'the city corporations'. So the verb will be plural. Hence, option (d) will be the correct answer.
83. (e) All the parts of the given sentence are grammatically correct. Hence, option (e) will be the correct answer.
84. (d) In the fourth part of the sentence, "greatest" should be replaced by "greater" because here we are comparing between two types of people, 'Prime Minister' and 'Ministers', and when we compare two

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- types of people or things in Comparative Degree then the adjective used should also be of Comparative Degree. Hence, option (d) will be the correct answer.
85. (a) The error lies in the first part of the sentence where the usage of the words 'blunder' and 'mistake' together is superfluous as 'blunder' itself means 'a stupid or careless mistake'. Hence, option (a) will be the correct answer.
86. (c) The correct sequence of the other parts to form a grammatically correct and contextually meaningful sentence is BACD. Hence, option (c) is the most suitable answer choice.
87. (a) The correct sequence of the other parts to form a grammatically correct and contextually meaningful sentence is BADC. Hence, option (a) is the most suitable answer choice.
88. (b) The correct sequence of the other parts to form a grammatically correct and contextually meaningful sentence is CABD. Hence, option (b) is the most suitable answer choice.
89. (d) The correct sequence of the other parts to form a grammatically correct and contextually meaningful sentence is ADCB. Hence, option (d) is the most suitable answer choice.
90. (e) The given parts of the sentence are in their precise position forming a coherent sentence. Since, they do not require any rearrangement option (e) becomes the most suitable answer choice.
91. (a) The most appropriate word that would fill the blank is 'mistakes' which means an act or judgement that is misguided or wrong. All the other words do not fill the blank appropriately, hence option (a) is the most suitable answer choice. Accuracies means the quality or state of being correct or precise. Obstacles means a thing that blocks one's way or prevents or hinders progress. Disputes means a disagreement or argument.
92. (c) The most appropriate word that would fill the blank is 'travel' which means journeys, especially abroad. All the other words do not fill the blank appropriately, hence option (c) is the most suitable answer choice. Deportation means the action of deporting a foreigner from a country. Transfer means move from one place to another.
93. (d) The most appropriate word that would fill the blank is 'discretion' which means the freedom to decide what should be done in a particular situation. All the other words do not fill the blank appropriately, hence option (d) is the most suitable answer choice. Omission means someone or something that has been left out or excluded. Affairs means an event or sequence of events of a specified kind or that has previously been referred to.
94. (b) The most appropriate word that would fill the blank is 'opportunity' which means a time or set of circumstances that makes it possible to do something.
- All the other words do not fill the blank appropriately, hence option (b) is the most suitable answer choice. Negligence means failure to take proper care over something. Surveillance means close observation, especially of a suspected spy or criminal.
95. (e) The most appropriate word that would fill the blank is 'estimation' which means a judgement of the worth or character of someone or something. All the other words do not fill the blank appropriately, hence option (e) is the most suitable answer choice. Consideration means careful thought, typically over a period of time. Suggestion means an idea or plan put forward for consideration. Guidance means advice or information aimed at resolving a problem or difficulty, especially as given by someone in authority.
96. (d) The most appropriate phrase to replace the phrase given in bold is "despite being the most efficient". It is to be noted that "despite" does not take any preposition with it. It is always followed with a noun, pronoun or a gerund. Moreover, when we use a superlative adjective (most) before the noun, we generally use it with 'the'. This is because there's only one (or one group) of the things we are talking about. Since option (d) is in the precise grammatical syntax, it becomes the most suitable answer choice.
97. (a) The most appropriate phrase to replace the incorrect bold phrase in the sentence is "satisfactory number of contestants". It is to be noted that 'satisfactory' is an adjective which means 'fulfilling expectations or needs; acceptable, though not outstanding or perfect' while 'satisfactorily' is an adverb. Moreover, 'number of' reflects the plural nature of the noun, hence "contestant" should be replaced by "contestants". Therefore, option (a) becomes the most suitable answer choice.
98. (b) The most suitable phrase that should replace the phrase given in bold is "depending upon the power of". Except for option (b) none other options are in absolute grammatical syntax. Hence, it becomes the most viable answer choice.
99. (c) The most appropriate phrase to replace the given phrase in bold to make the sentence grammatically correct is "had been teaching". It is to be noted past perfect continuous tense is used for ongoing continuous events over a period of time before another action or event in the past. These must be continuous verbs, and cannot be actions that are still happening in the present. Hence, considering the given rationale option (c) becomes the most suitable answer choice.
100. (e) The given phrase in bold is accurate and does not require any corrections or replacement. Hence, option (e) becomes the most suitable answer choice.



# SBI Clerk Mains Solved Paper-2016

Held on 25 June 2016

(Based on Memory)

Time : 160 minutes

Max. Marks : 200

## Reasoning Ability

**DIRECTIONS (QS. 1 - 5) :** Answer the questions on the basis of the information given below.

A number arrangement machine when given an input of words, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

Input : west 45 28 83 bunch find 39 hut 12 8 guy cool

Step I: 83 45 28 bunch find 39 hut 12 8 guy cool west

Step II: 8 83 45 28 bunch find 39 12 guy cool west hut

Step III: 45 8 83 28 bunch find 39 12 cool west hut guy

Step IV: 12 45 8 83 28 bunch 39 cool west hut guy find

Step V: 39 12 45 8 83 28 bunch west hut guy find cool

Step VI: 28 39 12 45 8 83 west hut guy find cool bunch

This is the final arrangement and step VI is the last step for this input.

1. Which of the following steps will be the last but one for following input?

**Input :** 76 from 48 super itself 56 18 went 22 crazy

- (a) V (b) III  
(c) IV (d) VII  
(e) None of these

2. What is the third step if input is

**Input:** 32 thirty days from now 56 87 24 23 shop

- (a) 56 23 87 32 days from 24 thirty shop now  
(b) 23 87 32 days from now 56 24 thirty shop  
(c) 23 87 32 days 56 from 24 thirty shop now  
(d) 56 23 87 32 from 24 thirty shop now days  
(e) None of these

3. Which of the following is last step of above input?

- (a) V (b) III  
(c) VI (d) IV  
(e) None of these

4. Find the Sixth step for which first step is given

Step I: 52 at deep follow 41 16 road 32 21 sheet

- (a) 32 21 41 16 52 sheet road follow at deep  
(b) 21 41 16 52 at 32 sheet road follow deep  
(c) 32 21 41 16 52 sheet road follow deep at  
(d) There is no such step  
(e) None of these

5. Which of the following is the last but one step of above input?

- (a) 21 41 32 16 52 sheet road follow at deep  
(b) 32 21 41 16 52 sheet road follow at deep  
(c) 21 41 16 52 at 32 sheet road follow deep  
(d) 32 21 41 16 52 sheet road follow deep at  
(e) None of these

**DIRECTIONS(Qs.6-10):** Study the following information Carefully to answer the given questions

Eight friends - A, B, C, D, E, F, G and H - are sitting around a circular table facing the centre but not necessarily in the same order. Each of them likes a different cricketers - Dhoni, Yuvraj, Sachin, Dravid, Irfan, Suhaib, Ashwin and Micael.

- There are two persons between those two persons who like Dhoni and Yuvraj and neither of them sits opposite A. C and G are immediate neighbours and neither of them likes Micael or Yuvraj. A, who likes Ashwin, sits second to the right of the girl who likes Micael. B and E neither like Micael nor sit adjacent to A. E, who likes Yuvraj, sits second to the left of G, who likes Dravid. C does not like Dhoni.
  - The immediate neighbour of E faces C, who sits third to the left of the one who likes Ashwin. F does not like Micael. Both D and H do not like Dhoni and Sachin. B likes Suhaib while D likes Irfan. B is not an immediate neighbour of A.
6. Who of the following is the favourite Cricketer of H?  
(a) Sachin (b) Micael  
(c) Dhoni (d) Dravid  
(e) None of these
7. Sachin is the favourite Cricketer of which of the following persons?  
(a) A (b) B  
(c) C (d) D  
(e) None of these
8. Who among the following sits exactly between A and H?  
(a) F (b) D  
(c) E (d) B  
(e) None of these
9. Which of the following statements is/are true about B?  
(a) B likes Irfan  
(b) B sits immediate neighbour of one who likes Sachin  
(c) B sits between E and D  
(d) B is immediate left of G  
(e) None of these
10. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which of the following does not belong to that group?  
(a) A - Ashwin (b) F - Dhoni  
(c) E - Yuvraj (d) D - Sachin  
(e) H - Micael

**DIRECTION ( Qs. 11-15):** Read the following information and answer the questions that follows.

P@Q - P is neither greater than nor equal to Q

P%Q - P is neither smaller than nor equal to Q

P#Q - P is not greater than Q

P\$Q - P is not smaller than Q

P\*Q - P is neither smaller than nor greater than Q

11. **Statements:** - A@B, B%C, C\*D, D\$E

**Conclusions:** - (1) B%E (2) A%E

- (a) Only conclusion one follows  
(b) Only conclusion second follows  
(c) Either conclusion one or two follows  
(d) Neither conclusion one nor second follow  
(e) Both conclusion one and two follows

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12. **Statements:** - A%B, B\*C, C#D, D%E  
**Conclusions:** - (1) A%C (2) E\$B  
 (a) Only conclusion one follows  
 (b) Only conclusion second follows  
 (c) Either conclusion one or two follows  
 (d) Neither conclusion one nor second follow  
 (e) Both conclusion one and two follows
13. **Statements:** - A\*B, B\$C, C#D, D@E  
**Conclusions:** - (1) E\*A (2) C%A  
 (a) Only conclusion one follows  
 (b) Only conclusion second follows  
 (c) Either conclusion one or two follows  
 (d) Neither conclusion one nor second follow  
 (e) Both conclusion one and two follows
14. **Statements:** - A\$B, B\$C, C\*D, D@E  
**Conclusions:** - (1) A\$E (2) E%C  
 (a) Only conclusion one follows  
 (b) Only conclusion second follows  
 (c) Either conclusion one or two follows  
 (d) Neither conclusion one nor second follow  
 (e) Both conclusion one and two follows
15. **Statements:** - A%E, E@C, C%B, B\*D  
**Conclusions:** - (1) C%D (2) B@A  
 (a) Only conclusion one follows  
 (b) Only conclusion second follows  
 (c) Either conclusion one or two follows  
 (d) Neither conclusion one nor second follow  
 (e) Both conclusion one and two follows

**DIRECTIONS (Qs.16 -20):** Study the information below and answer the following question:

In a certain code language  
 'economy and wealth balance' is written as 'gh mk ru st'  
 'wealth of nations depleting' is written as 'tl zm ak gh'  
 'taxes balance nations better' is written as 'dj ru zm pn'  
 'better to revive economy' is written as 'br ht dj st'  
 (All codes are two-letter codes only)

16. What does the code 'tl' stand for in the given code language?  
 (a) and  
 (b) Either 'of' or 'depleting'  
 (c) taxes  
 (d) to  
 (e) either 'nations' or 'taxes'
17. Which of the following may possibly represent 'revive to' in the given code?  
 (a) zm ht (b) bt zm  
 (c) ht co (d) br ht  
 (e) br dj
18. What is the code for 'economy' in the given code language?  
 (a) st (b) Either 'mk' or 'ru'  
 (c) gh (d) dj  
 (e) mk
19. What is the code for 'balance' in the given code language?  
 (a) st (b) gh  
 (c) ru (d) ak  
 (e) zm

20. Which of the following may represent 'better generate wealth' in the given code language?  
 (a) fs gh dj (b) dj mk gh  
 (c) gh pn st (d) gh fs mk  
 (e) xs dj ak

**DIRECTIONS (Qs.21-25):** Study the following carefully to answer the given questions

Eight friends H, I, J, K, L, M, N and O are sitting in a row facing north. All of them like different colours - Red, Pink, Orange, Green, Yellow, Black, Violet and Blue.

- There is only 1 person between J and one who likes Violet. N is neither an immediate neighbour of J nor he likes Green. H sits fourth to the left of the one who likes Violet but she does not like pink. The person who likes Black is sits third to the right of the one who likes Green and sits on the immediate right of H.
  - The one who likes Green sits at one of the extreme ends of the row. I does not like Green. M is an immediate neighbour of both N and J. O sits at one of the extreme end of the row but he does not like green. The one who likes Blue sits second to the right of the one who likes Orange. The one who likes Black and Pink are immediate neighbours. L sits third to the left of J and likes Yellow. There is only one person sitting between the one who likes yellow and black.
21. How many persons are there between I and N ?  
 (a) One (b) Two  
 (c) Three (d) Four  
 (e) None of these
22. Who among the following sits third to the right of the person one who likes Pink ?  
 (a) One who like Blue (b) One who likes Black  
 (c) One who likes Red (d) One who likes Green  
 (e) None of these
23. Who among the following likes Orange ?  
 (a) O (b) N  
 (c) M (d) L  
 (e) None of these
24. N likes which of the following colour ?  
 (a) Red (b) Black  
 (c) Red (d) Violet  
 (e) None of these
25. Who likes Red sitting between  
 (a) Immediate right of the one who likes Green  
 (b) Immediate left of the one who likes Black  
 (c) Immediate right of the one who likes Yellow  
 (d) Immediate right of the one who likes Pink  
 (e) Both B and C

**DIRECTIONS (Qs. 26-30):** Study the following arrangement to answer the given questions

H 3 R % M A \$ K 2 P 5 E © N 4 W @ F & Q 1 U / 9 J I D 7 8

26. Which of the following is the fifth to the right of the 12th from the left end of the above arrangement ?  
 (a) \$ (b) @  
 (c) / (d) W  
 (e) None

27. If all the numbers are dropped from the above arrangement then what will be the 10th from the right end ?  
 (a) W (b) @  
 (c) / (d) N  
 (e) None
28. How many such symbol in the above arrangement immediately preceded by letter and immediately followed by a number ?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three
29. What should come in the following series based on the above arrangement ?  
 HR% AK2 5©N ?  
 (a) @Q1 (b) F&Q  
 (c) W@F (d) WF&  
 (e) None
30. How many such numbers are there in the above arrangement, each of which is immediately preceded by letter and immediately followed by letter ?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three

**DIRECTIONS (Qs. 31-35) :** Study the following information to answer the given questions:

A, B, C, D, E, F and H live on eight different floors, Ground floor is no 1, 1st floor is no 2 and so on. There are 2 floors between the floor on which B and H live. D lives on an odd-numbered floor and he does not live immediately below or above F's floor. F lives below H's floor.

D does not live immediately below or above B's floor. A does not live on an even-numbered floor. C does not live on the topmost floor. G lives on 6th floor. E does not live below H and B lives on floor no E)

31. How many floors are there between the floors on which D and H live ?  
 (a) One (b) Two  
 (c) Three (d) Four  
 (e) None of the above
32. Who among the following lives on the floor no 3?  
 (a) A (b) B  
 (c) C (d) F  
 (e) None of the above
33. Four of the following five are alike in a certain way and so form a group. Which does not belong to that group ?  
 (a) ED (b) BC  
 (c) HF (d) BA  
 (e) None of the above
34. E lives on which of the following floor ?  
 (a) 4th floor (b) 8th floor  
 (c) 3rd floor (d) 8th floor  
 (e) None of the above
35. Who lives between A and F ?  
 (a) C (b) G  
 (c) B (d) H  
 (e) None of the above

**DIRECTIONS (Qs. 36-40):** Study the following information carefully to answer the given questions

36. How far is point A from point D ?  
 I. Point A is 4m to the north of point B. Point C is 3m to the east of point A. Point D is to the west of point A such that points C, A and S form a straight line of 7m

- II. Point F is 3m to south of point D. Point C is 4m to the east of point A. Point A is 3m to the north of point B. Point A lies on the line formed by joining points C and D.  
 (a) Only I (b) Only II  
 (c) Both I and II (d) Either I or II  
 (e) Neither I or II
37. How many people are standing in a straight line. All are facing North  
 I. M stands third from the left end of the line. Only one person stands between M and O. P stands second to the right of O. P stands at one of the extreme lines  
 II. K stands exactly at the centre of the line. Only two people stand between K and L. Only three people stand between L and O. Only one person stands between O and P  
 (a) Only I (b) Only II  
 (c) Both I and II (d) Either I or II  
 (e) Neither I or II
38. What does 'Zee' represent in a code language ?  
 I. In that code language 'ah koj zee pig' mean 'can you take that'  
 II. In that code language 'et zee lin ter' means 'you may come now'  
 (a) Only I (b) Only II  
 (c) Both I and II (d) Either I or II  
 (e) Neither I or II
39. Among K, L, M, N, O and P each has different age, who is the youngest among them ?  
 I. L is younger than only K, and P. N is neither the oldest nor the youngest  
 II. M is older than N but not the oldest  
 (a) Only I (b) Only II  
 (c) Both I and II (d) Either I or II  
 (e) Neither I or II
40. How is H related to C?  
 I. M has two daughters. One of them is Z, who is married to H.  
 II. C is the mother of Y, the younger sister of Z.  
 III. M is C's husband.  
 (a) Only I and II  
 (b) Only I and III  
 (c) Only I and either II or III  
 (d) Any two of the three  
 (e) All are necessary

**DIRECTIONS (Qs. 41-45) :** Study the following information carefully to answer the given questions.

Seven actors A, B, C, D, E, F and G act in different types of drama like Action, Thriller, Romantic, Suspense, Comedy, Horror and Inspirational, but not necessarily in the same order. All the seven actors are engaged on three different days of the week i.e. Sunday, Monday and Tuesday. A is engaged on Sunday only with E and his drama is Thriller. D is acting in Horror drama and does not act on Tuesday. The one who is acting in Comedy acts on Monday. B and C do not act on the same day. Those who act on Sunday do not perform Romantic drama. F acts in Suspense drama but does not act on Monday. G acts on the same day as F. C acts in Action drama.

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41. Who acts in Comedy?  
 (a) A (b) B  
 (c) E (d) F  
 (e) None of these
42. Which of the following groups of actors performs on Tuesday?  
 (a) ABG (b) CFE  
 (c) CDE (d) CFG  
 (e) EFG
43. B and D act on which of the following days of the week?  
 (a) Sunday (b) Monday  
 (c) Tuesday (d) Monday and Tuesday  
 (e) None of these
44. E acts in which type of drama?  
 (a) Thriller (b) Action  
 (c) Comedy (d) Horror  
 (e) None of these
45. Which of the following combinations of actor-day-drama is definitely correct?  
 (a) F - Monday - Romantic  
 (b) G - Tuesday - Romantic  
 (c) D - Sunday - Action  
 (d) E - Tuesday - Inspirational  
 (e) None of these

**DIRECTIONS (Qs. 46-48):** Study the following information carefully to answer the given questions

'P × Q' means 'P is son of Q'.

'P + Q' means 'P is daughter of Q'.

'P ÷ Q' means 'P is wife of Q'.

'P - Q' means 'P is father of Q'.

46. In the expression 'K + H - P ? Q', what will come in place of ? if Q is mother of K?  
 (a) + (b) -  
 (c) ÷ (d) ×  
 (e) None of these
47. Which of the following relation is true with regard to expression 'B ÷ P × Z - K + O' ?  
 (a) P is brother of O  
 (b) B is daughter-in-law of K  
 (c) B is daughter-in-law of O  
 (d) O is daughter of Z  
 (e) None of these
48. If it is provided that M is grandmother of P, then what will come in place of ? in expression - 'P - H ÷ T ? M' ?  
 (a) + (b) -  
 (c) ÷ (d) ×  
 (e) None of these
49. What is the value of ★△△★△?  
 (a) 10 (b) 12  
 (c) 13 (d) 15  
 (e) None of these
50. What is the value of ★△△△★ ÷ ★△★?  
 (a) 12 (b) 15  
 (c) 6 (d) 7  
 (e) None of these

### Quantitative Aptitude

**DIRECTIONS (Qs. 51-55):** What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

51. 68% of 1288 + 26% of 734 - 215 = ?  
 (a) 620 (b) 930  
 (c) 540 (d) 850  
 (e) 710
52.  $(32.05)^2 - (18.9)^2 - (11.9)^2 = ?$   
 (a) 670 (b) 530  
 (c) 420 (d) 780  
 (e) 960
53.  $6578 \div 67 \times 15 = ? \times 6$   
 (a) 200 (b) 250  
 (c) 150 (d) 100  
 (e) 300
54.  $\frac{679}{45} \div \frac{23}{2130} \times \frac{126}{169} = ?$   
 (a) 540 (b) 760  
 (c) 800 (d) 1260  
 (e) 1040
55.  $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$   
 (a) 840 (b) 910  
 (c) 1320 (d) 1120  
 (e) 1550

**DIRECTIONS (56-60):** What should come in place of the following question mark in the following number series?

56. 649.6875 1299.375 866.25 346.5 99 22 ?  
 (a) 4 (b) 7  
 (c) 10 (d) 12  
 (e) None of these
57. 30 16 10 8 8 9 ?  
 (a) 12.75 (b) 13  
 (c) 14 (d) 10.5  
 (e) None of these
58. 10 18 63 253 1137 5901 ?  
 (a) 39754 (b) 35749  
 (c) 37594 (d) 35794  
 (e) None of these
59. 11 26 58 124 258 528 ?  
 (a) 1020 (b) 1135  
 (c) 1285 (d) 1340  
 (e) None of these
60. 738 765 819 900 1008 1143 ?  
 (a) 1445 (b) 1565  
 (c) 1305 (d) 1275  
 (e) None of these

**DIRECTIONS (Qs. 61-65):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

Read both the statements and give answer

- (a) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
 (b) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.  
 (c) if the data either in statement I alone or in statement II alone are sufficient to answer the question.  
 (d) if the data even in both statements I and II together are not sufficient to answer the question.  
 (e) if the data in both statements I and II together are necessary to answer the question.

61. Who amongst A, B, C, D and E is the tallest?  
 I. A is taller than B but shorter than C. D is not the tallest.  
 II. Two people are taller than C.
62. Which direction is Ali facing?  
 I. If Pawn, who is currently facing East, turns  $90^\circ$  towards his right, he would face a direction exactly opposite to the direction which Ali is facing.  
 II. If Preeti who, is currently facing South, turns left, walks 1 m and then takes a left turn again, she would face the same direction as Ali.
63. Did 300 candidates appear for the written examination for admission into College ABC?  
 I. The principal of the college correctly mentions that the number of candidates who had appeared for the examination was more than 200.  
 II. According to a statistical report, only 175 candidates could qualify the examination.
64. How far is Point P from Point Q?  
 (All the points lie on a straight line.)  
 I. Point T is exactly midway between Points P and Q. Point T is 5 km towards west of Point R.  
 II. Point Q is 2 km towards west of Point R.
65. How many brothers does A have?  
 I. A, who is B's brother, has two siblings.  
 II. D is brother of A and is youngest in the family.
66. A has double the money of B and B has 50% more money than C. If average money of all the three persons is 12000, how much money A have?
- |                         |                         |
|-------------------------|-------------------------|
| (a) $\frac{211000}{11}$ | (b) $\frac{315000}{11}$ |
| (c) $\frac{216000}{11}$ | (d) $\frac{316000}{11}$ |
- (e) None of the above
67. In an examination out of 480 students, 85% of the girls and 70% of the boys have passed.  
 How many boys appeared in the examination, if total pass percentage was 75%?

- (a) 370 (b) 340  
 (c) 320 (d) 360  
 (e) None of these
68. Fresh grapes contain 80% water, while dry grapes contain 10% water. If the weight of dry grapes is 500 kg, then what is its total weight when it is fresh?  
 (a) 2350 kg (b) 2085 kg  
 (c) 2255 kg (d) 2250 kg  
 (e) None of these
69. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 12 yr and for 18 yr?  
 (a) 2 : 5 (b) 1 : 3  
 (c) 2 : 3 (d) 3 : 1  
 (e) None of these
70. Number of employees in a factory decreases in the ratio of 8 : 7 and salary of employees increase in the ratio of 5 : 6. Find whether the total salary given to the employees is increased or decreased and in what ratio?  
 (a) 19 : 20, increased (b) 20 : 19, decreased  
 (c) 19 : 21, increased (d) 21 : 20, decreased  
 (e) None of the above
71. A and B started a business by investing ₹20000 and ₹25000 respectively. After 4 months B left and C joined by investing ₹15000. At the end of the year, there was a profit of ₹23000. What is C's share?  
 (a) ₹8000 (b) ₹9000  
 (c) ₹6000 (d) ₹12000  
 (e) None of these
72. What would be the cost of building a fence around a square plot with area equal to 361 sq ft, if the price per foot of building the fence is ₹62?  
 (a) ₹4026 (b) ₹4712  
 (c) ₹3948 (d) Can't be determined  
 (e) None of these
73. Mr. X sold a good to Mr. Y at 10% discounted value of printed rate. The discounted value is ₹1,242. If the printed rate is 15% profit of the purchase rate, what is the purchase rate?  
 (a) ₹1,242 (b) ₹1,380  
 (c) ₹1,280 (d) ₹1,200  
 (e) None of these
74. The average age of five officers in a department is 32 years. If the age of their supervisor is added the average increased by 1. What is the supervisor's age?  
 (a) 32 years (b) 48 years  
 (c) 38 years (d) 42 years  
 (e) None of these
75. A 175 metres long train crosses a 35 metres platform in 12 seconds. What is the speed of the train in km/hr?  
 (a) 42 (b) 64  
 (c) 63 (d) 59  
 (e) None of these



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**DIRECTIONS (Qs. 76-80):** Study the following profile of parliament carefully and answer the questions given below it.

**PROFILE OF PARLIAMENT IN YEAR XXXX**

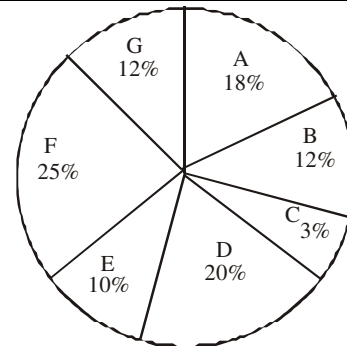
Total members in Parliament = 640

(492 from Lok Sabha and 150 from Rajya Sabha)

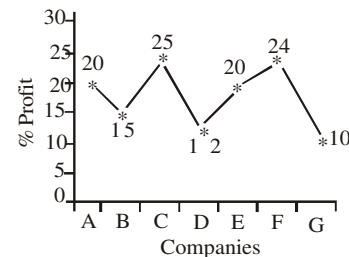
| Lok Sabha<br>(No. of Members) | Party        | Rajya Sabha<br>(No. of Members) |
|-------------------------------|--------------|---------------------------------|
| 280                           | A            | 90                              |
| 180                           | B            | 45                              |
| 30                            | Others       | 15                              |
| 490                           | TOTAL        | 150                             |
| <b>SEX</b>                    |              |                                 |
| 435                           | Males        | 120                             |
| 55                            | Females      | 30                              |
| <b>RELIGION</b>               |              |                                 |
| 348                           | Hindus       | 84                              |
| 42                            | Muslims      | 20                              |
| 75                            | Sikhs        | 35                              |
| 25                            | Christians   | 10                              |
| <b>PROFESSION</b>             |              |                                 |
| 300                           | Graduates    | 50                              |
| 45                            | Business men | 19                              |
| 60                            | Educators    | 11                              |
| 85                            | Unknown      | 70                              |

76. What is the approximate percentage of the Muslim members in the Lok Sabha?  
 (a) 9% (b) 11%  
 (c) 13% (d) 14%  
 (e) 7%
77. In the Rajya Sabha, if 30 male members were replaced by 30 female members, then what would be the ratio of male members to female members?  
 (a) 3:1 (b) 3:2  
 (c) 1:3 (d) 2:3  
 (e) 2:1
78. What percentage of members in parliament are businessmen?  
 (a) 8% (b) 20%  
 (c) 30% (d) 18%  
 (e) 10%
79. If all the 'others' of Lok Sabha join the party 'B' then what will be the ratio of the members of party 'A' to the members of party 'B'?  
 (a) 3:2 (b) 6:5  
 (c) 4:3 (d) 7:6  
 (e) 4:5
80. Out of the total members of party 'B' in parliament, what percentage of the members belong to Rajya Sabha?  
 (a) 30% (b) 35%  
 (c) 25% (d) 20%  
 (e) 15%

**DIRECTIONS (Qs. 81-85):** Study the following pie-charts carefully to answer the given questions



% profit of these Companies during the financial year



81. What was the ratio of the expenditure of company 'A' to that of company 'C'?  
 (a) 6:1 (b) 24:5  
 (c) 25:4 (d) Can't be determined  
 (e) None of these
82. If the difference between the incomes of companies 'A' and 'E' was ₹240 cr, what was the total expenditure of both the companies?  
 (a) ₹840 cr (b) ₹700 cr  
 (c) ₹740 cr (d) Can't be determined  
 (e) None of these
83. Which of the following companies has recorded maximum profit (in terms of ₹) in this financial year if the combined income of these companies is ₹3000 cr?  
 (a) A (b) C (c) D (d) E  
 (e) F
84. If in the given financial year income of company 'D' was ₹535 cr, what was the approximate expenditure of company 'B' in that year?  
 (a) ₹275 cr (b) ₹350 cr  
 (c) ₹280 cr (d) ₹250 cr  
 (e) ₹270 cr
85. The expenditure of Company 'F' was ₹750 cr. What was the total income of all the given companies together?  
 (a) ₹3720 cr (b) ₹3240 cr  
 (c) ₹3680 cr (d) Can't be determined  
 (e) None of these
86. Radha's present age is three yrs less than twice her age 12 yrs ago. Also, the ratio of Raj's present age to Radha's present age is 4:9. What will be Raj's age after 5 yrs?  
 (a) 12 yrs (b) 7 yrs  
 (c) 21 yrs (d) Can't be determined  
 (e) None of these

87. The average score of Rahul, Manish and Suresh is 63. Rahul's score is 15 less than Ajay and 10 more than Manish. If Ajay scored 30 marks more the average score of Rahul, Manish and Suresh, what is the sum of Manish's and Suresh's scores?  
 (a) 120 (b) 111  
 (c) 117 (d) Can't be determined  
 (e) None of these
88. Mr. X invested a certain amount in Debt and Equity Funds in the ratio of 4 : 5. At the end of one year, he earned a total dividend of 30% on his investment. After one year, he reinvested the amount including the dividend in the ratio of 6 : 7 in the Debt and Equity Funds. If the amount reinvested in Equity Funds was ₹ 94,500, what was the original amount invested in Equity Funds?  
 (a) ₹ 75,000 (b) ₹ 81,000  
 (c) ₹ 60,000 (d) ₹ 65,000  
 (e) None of these
89. If the length of a rectangular field is increased by 20% and the breadth is reduced by 20%, the area of the rectangle will be 192 m<sup>2</sup>. What is the area of the original rectangle?  
 (a) 184 m<sup>2</sup> (b) 196 m<sup>2</sup>  
 (c) 204 m<sup>2</sup> (d) 225 m<sup>2</sup>  
 (e) None of these
90. In how many different ways can the letters of the word 'THERAPY' be arranged so that the vowels never come together?  
 (a) 720 (b) 1440  
 (c) 5040 (d) 3600  
 (e) 4800
91. Car 'A' travels at the speed of 65 km/hr and reaches its destination in 8 hours. Car 'B' travels at the speed of 70 km/hr and reaches its destination in 4 hours. What is the ratio of the distance covered by car A and car B respectively?  
 (a) 11 : 7 (b) 7 : 13  
 (c) 13 : 7 (d) 7 : 11  
 (e) None of these
92. Arun ordered 15 chapattis, 4 plates of rice, 6 plates of mixed vegetable and 5 ice-cream cups. The cost of one chapatti is ₹ 5, one plate of rice is ₹ 50, one plate of mixed vegetable is ₹ 75 and one ice-cream cup is ₹ 20. How much amount did Arun pay to the cashier?  
 (a) ₹ 850 (b) ₹ 795  
 (c) ₹ 825 (d) ₹ 750  
 (e) None of these
93. Four examiners can examine a certain number of answer papers in 10 days by working for 5 hours a day. For how many hours in a day would 2 examiners have to work in order to examine twice the number of answer papers in 20 days?  
 (a) 8 hours (b)  $7\frac{1}{2}$  hours  
 (c) 10 hours (d)  $8\frac{1}{2}$  hours  
 (e) None of these
94. Five-ninths of a number is equal to 25% of the second number. The second number is equal to one-fourth of the

third number. The value of the third number is 2960. What is 30% of the first number?

- (a) 88.8 (b) 99.9  
 (c) 66.6 (d) Can't be determined  
 (e) None of these
95. In a school there are 250 students, out of whom 12% are girls. Each girl's monthly fee is ₹ 450 and each boy's monthly fee is 24% more than of a girl. What is the total monthly fee of girls and boys together?  
 (a) ₹ 1,36,620 (b) ₹ 1,36,260  
 (c) ₹ 1,32,660 (d) ₹ 1,32,460  
 (e) None of these

**DIRECTIONS (Qs. 96-100):** In the following question two equations numbered I and II are given, You have to solve both equation and – give answer

- (a) if  $x > y$  (b) if  $x \geq y$   
 (c) if  $x < y$  (d) if  $x \leq y$   
 (e) if  $x = y$  or the relationship cannot be established.

96. I.  $289x\sqrt{25} = 0\sqrt{\quad}$

II.  $\sqrt{676y+10} = 0$

97. I.  $8x^2 - 78x + 169 = 0$   
 II.  $20y^2 - 117y + 169 = 0$

98. I.  $\frac{15}{\sqrt{x}} + \frac{9}{\sqrt{x}} = 11\sqrt{x}$

II.  $\frac{\sqrt{y}}{4} + \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

99. I.  $\frac{8}{\sqrt{x}} + \frac{6}{\sqrt{x}} = \sqrt{x}$   
 (14)<sup>2</sup>

II.  $y^3 - \frac{1}{\sqrt{y}} = 0$

100. I.  $x^2 - 208 = 233$   
 II.  $y^2 - 47 + 371 = 0$

### English Language

**DIRECTIONS (Qs. 101-110):** Read the following passage carefully and answer the following questions given below it. Certain words/ phrases have been printed in bold to help you locate them while answering some of the questions:

Our current approach to solving global warming will not work. It is flawed economically, because carbon taxes will cost a fortune and do little, and it is flawed politically because negotiations to reduce carbon-dioxide emissions will become even more fraught and divisive. And even if you disagree on both counts, the current approach is also flawed technologically.

Many countries are now setting ambitious carbon cutting goals ahead of global negotiations. Let us imagine that the world ultimately agrees on an ambitious target. Say, we decide to reduce carbon-dioxide emissions by three-quarters by the year 2100 while maintaining reasonable growth. Herein lies that the technological problem to meet this goal, non-carbon based sources of energy would have to be astounding 2.5 times greater in 2100 than that was in the year 2000.

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These figures were calculated by economists of a foreign university. Their research shows that confronting global warming effectively requires nothing short of a technological revolution. We are not taking this challenge seriously. If we continue on our current path, technological development will be nowhere near significant enough to make non-carbon based energy sources competitive with fossil fuels on price and effectiveness.

Sadly, during the international negotiations, the focus is on how much carbon to cut, rather than on how to do so. Little or no consideration will be given to whether the means of cutting emissions are sufficient to achieve the goals.

Politicians will base their decisions on global warming models that simply assume that technological breakthroughs will happen by themselves. This faith is sadly and dangerously misplaced.

Economists examine the state of non-carbon based energy today—nuclear, wind, solar and geothermal and find that, taken together, alternative energy sources would get us less than halfway toward a path of stable carbon emissions by 2050, and only a tiny fraction of the way toward stabilization by 2100. We need many times more non-carbon based energy than is currently produced. Yet the needed technology will not be ready in terms of scalability of stability. In many cases, there is still a need for the most basic research and development. We are not even close to getting this revolution started. Current technology is so inefficient that to take just one example, if we were serious about wind power, we would have to blanket most countries with wind turbines to generate enough energy for everybody, and we would still have the massive problem of storage: We don't know what to do when the wind does not blow.

Policy makers should abandon fraught carbon reduction negotiations and instead make agreements to invest in research and development to get this technology to the level where it needs to be.

101. Which of the following is suggested in the passage by which global warming can be reduced?
- To make the approach towards global warming completely free from political intervention.
  - By making non-carbon based energy methods as efficient and cost effective as the fossil fuels.
  - To force every country to confine to stricter terms of carbon emissions.
  - To avoid international negotiations on carbon cuts until the technological research comes out with a scalable and stable solution.
  - All of the above
102. Which of the following is not true in the context of the given passage?
- Non-carbon fuels are too expensive so they should not be used.
  - Political ignorance is one of the main reasons behind the inappropriate approach to combat global warming.
  - The generation of energy from non-carbon sources has to be increased for significant reduction in global warming.
- Only (A)
  - Only (C)
  - Only (A) & (C)
  - Only (B) & (C)
  - All (A), (B) & (C)

103. Why, according to the author, are the international negotiations barely a solution to the problem of global warming?
- Many countries fail to confine to the carbon-cut norms as set in these negotiations.
  - These negotiations emphasize on the amount of carbon to be cut and not on the ways in which it can be done.
  - Recent research on the carbon-cut methods is overlooked by the politicians.
  - Such negotiations produce dominance of powerful countries over the others, thus hampering their industries development.
  - None of these
104. Which of the following is intended in the given passage?
- To suggest the ways in which alternate forms of energy can reduce climate change.
  - To explain that the current technological developments are flawed and thus, fail to control the climate change.
  - To explain that the stable carbon emissions are impossible to achieve in this century.
  - To suggest to the policy makers to invest in research rather than futile negotiations.
  - None of these
105. Which challenge according to the author is not being taken seriously in the phrase "we are not taking this challenge seriously" as used in the passage?
- Cutting the carbon emissions to a scale of 2.5 times in the next decade.
  - The challenge of locating new fossil fuel reserves since the existing ones are depleting at a fast rate.
  - To carry out technological innovations for developing non-carbon based energy resources.
- Only (C)
  - Both (A) & (C)
  - Only (B)
  - Both (A) & (C)
  - None of these
106. Which of the following is true in the context of the passage?
- Many countries are refraining from taking part in global negotiations to check global warming.
  - There has been no improvement in carbon emissions world over.
  - Technological advancement through research is the need of the hour in order to meet the directed goal of combating global warming.
  - Most countries in the world are well equipped to produce sufficient non-carbon based energy sources.
  - All the above statements are true.

**DIRECTIONS (Qs. 107-108):** Choose the word which is most similar in meaning to the word printed in bold as used in the passage.

107. COUNTS
- numbers
  - matters
  - calculations
  - values
  - attributes

108. CUTTING

- |                  |              |
|------------------|--------------|
| (a) slicing      | (b) breaking |
| (c) reducing     | (d) tearing  |
| (e) interrupting |              |

**DIRECTIONS (Qs. 109-110):** Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.

109. REASONABLE

- |                  |                |
|------------------|----------------|
| (a) fair         | (b) logical    |
| (c) irrational   | (d) inadequate |
| (e) considerable |                |

110. MASSIVE

- |                  |           |
|------------------|-----------|
| (a) light        | (b) large |
| (c) significant  | (d) short |
| (e) unreasonable |           |

**DIRECTIONS (Qs. 111-115):** Read the following passage carefully and answer the questions given below it. Certain words/phrases are given in bold to help you to locate while answering some of the questions.

The simultaneous celebration of Rabindranath Tagore's 150th birth anniversary in India and Bangladesh marked an exceptional move to honor the poet-philosopher. It also symbolized the deep admiration that exists in both countries for the man who enriched literature as much as he did humanity as a whole.

The versatile genius, who was much ahead of his time, wrote in his mother tongue of Bangla. But he did not limit his message to the people who lived around him. His creative works introduced a powerful dose of live and internationalism. This Indian rose to international heights: he was the first non-European to receive the Nobel Prize for Literature, in 1913.

Tagore was poet, novelist, short story writer, essayist, playwright, educationist, spiritualist, painter, lyricist, composer and singer - a rare set of distinctions, an unbelievable conjunction of talents. His creative works, which still influence billions of people globally, are a matter of pride for the people of India and Bangladesh. He was born, grew up, worked and died here.

At critical moments he has been an inspiration for the people of what is now Bangladesh. Protagonists of the two-nation theory wanted to wipe out his influence. Pakistan's first military ruler, Ayub Khan, banned his songs.

But the poet only became more relevant then before. A strong sense of linguistic nationalism grew around him. Finally, the people launched a strong cultural and political movement that culminated in the formation of Bangladesh.

Tagore made the Bengali middle class feel that he an essential part of their national ethos. The emerging middle class, including students and intellectuals, regarded him as one of them. In no way could they think that Tagore was alien to them because of his religion.

Strangely, as in Pakistan's case, the successive military regimes in Bangladesh showed little interest in upholding his legacy. Tagore's songs and poems inspired Bengalis in their fight against Pakistan in the 1971 war of liberation. His songs and poetry

inspired them culturally and politically. Never before had a poet left such an imprint and wielded so deep an influence on the psyche of the vast majority of the people. While India chose his Jana gana manas the national anthem in 1947, Bangladesh has had one of his songs as the national anthem since its birth.

Sri Lanka's national anthem was also penned by Tagore: Apa Sri Lanka, Nama Nama Nama Nama Mata, Sundar Sir Borni was originally Nama Nama Sri Lanka Matain Bangla, written and set to its tune by Tagore. He did it at the request of his favourite Sri Lankan student at Santiniketan, Ananda Samarkun, in 1938. In 1940, Ananda returned to his native land and translated the song into Sinhalese and recorded it in Tagore's tune. Indeed, Rabindranath is not only the preeminent literary genius of Bengal but all of South Asia, perhaps the whole of Asia.

111. What did Tagore make the Bengali middle class feel?

- that he (Tagore) was alien to them because of his religion.
- that they (the Bengalis) were alien to them because of their religion.
- that he (Tagore) was an essential part of their national ethos.
- that they (the Bengalis) were an essential part of their national ethos.
- None of these

112. Out of the following options, Tagore was not a(n) -

- Short-story writer
- Painter
- Novelist
- Lawyer
- Singer

113. Tagore, at critical moments, has been an inspiration for the people of\_\_\_\_\_.

- Pakistan and India
- India and Bangladesh
- Bangladesh and Pakistan
- Only Bangladesh
- None of these

114. What happened after Tagore's songs were banned by Pakistan's first military ruler, Ayub Khan?

- Tagore became more relevant than before.
- A strong sense of linguistic nationalism grew around him
- He wielded a deep influence and enriched literature
- All 1, 2 and 3
- Only 1 and 2

115. Which of the following statements about Tagore, according to the given passage, is not true?

- He was an unbelievable conjunction of talents.
- He was much ahead of his time and limited his message to the people who lived around him.
- He penned the national anthems of India, Bangladesh and Sri Lanka.
- He was the first non-European to receive the Nobel Prize for Literature, in 1913.
- None of these

**DIRECTIONS (Qs. 116-125):** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blanks appropriately. Find out the appropriate word in each case.



2016-10

SBI Clerk Mains Solved Paper-2016

Information technology, and the hardware and software (21) with the IT industry, are a/an (22) part of nearly (23) major global industry. IT industry has become one of the most robust industries in the world. IT, more than any other industry or economic (24), has an increased productivity, particularly in the developed world, and therefore is a key driver of global economic growth. Economies of scale and (25) demand from consumers and enterprises (26) this rapidly growing sector. The Information Technology Association of America (ITAA) explains 'information technology' as (27) all possible aspects of information systems based on computers. Both software development and the hardware involved in the IT industry include everything from computer systems, to the design, implementation, study and development of IT and management systems. (28) to its easy accessibility and the wide range of IT products available, the demand for IT services has increased (29) over the years. The IT sector has emerged as a major global (30) of both growth and employment.

116. (a) use (b) amalgamation  
(c) associated (d) vision  
(e) regulated
117. (a) integral (b) fundamental  
(c) increased (d) vital  
(e) eager
118. (a) most (b) all  
(c) every (d) few  
(e) some
119. (a) world (b) opinion  
(c) stature (d) profit  
(e) facet
120. (a) multiply (b) insatiable  
(c) decreasing (d) unquenchable  
(e) unreasonable
121. (a) forage (b) thwart  
(c) motivate (d) fuelling  
(e) characterize
122. (a) making (b) qualifying  
(c) inclusive (d) encompassing  
(e) trusting
123. (a) owing (b) since  
(c) catering (d) in order  
(e) complementing
124. (a) regularly (b) substantially  
(c) minimally (d) exponential  
(e) savagely
125. (a) fortune (b) meltdown  
(c) spring (d) source  
(e) economy

**DIRECTIONS (Qs. 126-130):** Rearrange the following five sentences (A), (B), (C), (D), and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- (A) For instance, if we measure the room temperature continuously and plot its graph with time on X-axis and temperature on the Y-axis, we get a continuous waveform, which is an analog signal. Analog is always continuous.
- (B) The absence or presence of something can be used to plot a digital signal.
- (C) An analog signal is a continuously varying signal, similar to a sinusoidal waveform.

- (D) Any signal can be classified into one of the two types: analog and digital.
- (E) In contrast, a digital signal takes the form of pulses, where we have something or nothing.
126. Which of the following should be the FIRST sentence after rearrangement?  
(a) A (b) B  
(c) C (d) D  
(e) E
127. Which of the following should be the THIRD sentence after rearrangement?  
(a) A (b) B  
(c) C (d) D  
(e) E
128. Which of the following should be the SECOND sentence after rearrangement?  
(a) A (b) B  
(c) C (d) D  
(e) E
129. Which of the following should be the FOURTH sentence after rearrangement?  
(a) A (b) B  
(c) C (d) D  
(e) E
130. Which of the following should be the FIFTH sentence their rearrangement?  
(a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Qs. 131-135):** Read each of the following sentences to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (e). (Ignore errors of punctuation, if any).

131. The scheme failed because (a)/some states could not, (b)/manage not to raise (c)/the necessary funds. (d)/No error (e).
132. By so early as next year (a)/that leading investment bank (b)/has plans to open (c)/ an office in New Delhi. (d)/No error (e).
133. Experts have recommended that (a)/the government reconsidered (b)/restrictions imposed on foreign (c)/ investment in real estate. (d)/No error (e).
134. He wants to (a)/set up a laboratory (b)/to undertake research (c)/into a vaccine for cancer. (d)/No error (e).
135. Because of the pace at (a)/which the company is growing (b)/I believe it will easily (c)/acheive their target. (a)/No error (e).

**DIRECTIONS (Qs. 136-140):** Each question given below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

136. After having been friends for more than a decade, they had a \_\_\_\_\_ last year and have not \_\_\_\_\_ each other ever since.  
(a) fight, talked (b) argument, met  
(c) dispute, seen (d) quarrel, admired  
(e) difference, introduced



137. The workers, several of \_\_\_\_ had complained about their low wages earlier have now \_\_\_\_ to move to the court for the labour rights.  
 (a) who, indicated (b) whom, decided  
 (c) which, threatened (d) them, resolved  
 (e) number, warmed
138. The hutment dwellers were jubilant when the government \_\_\_\_ an apartment to each of them at \_\_\_\_ rates.  
 (a) demolished, fast (b) announced, less  
 (c) provided, high (d) acquired, low  
 (e) promised, subsidised
139. The organization was deeply \_\_\_\_ by difficulties a decade ago, but the new CEO brought many \_\_\_\_ changes in it and took it to a new high.  
 (a) indebted, necessary (b) plagued, vital  
 (c) coping, more (d) hurt, critical  
 (e) shaken, inevitable
140. The Prime Minister who is \_\_\_\_ in his holiday home at the moment said that he was very \_\_\_\_ by the news of India winning the World Cup.  
 (a) visiting, happy (b) residing, obliged  
 (c) intruding, dejected (d) staying, pleased  
 (e) resting, cheerful
- General Awareness**
141. What was India's per capita income for 2015-16?  
 (a) 65000 rupees (b) 72000 rupees  
 (c) 85000 rupees (d) 110000 rupees  
 (e) 77000 rupees
142. What is Special Drawing Right (SDR)?  
 (a) an urban free market economic process of entrepreneurs replacing the imports of the city with production from within the city.  
 (b) is an interest-bearing international reserve asset created by the IMF in 1969 to supplement other reserve assets of member countries.  
 (c) a series of pre-defined commercial terms published by the International Chamber of Commerce (ICC). They are widely used in International commercial transactions or procurement processes.  
 (d) a policy followed by some international markets in which countries' governments do not restrict imports from, or exports to, other countries.  
 (e) a government policy to encourage export of goods and discourage sale of goods on the domestic market through direct payments, low-cost loans, tax relief for exporters, or government-financed international advertising.
143. Who was the first Chief of Naval Staff of the Indian Navy?  
 (a) Madhvendra Singh  
 (b) Ronald Lynsdale Pereira  
 (c) Charles Thomas Mark Pizey  
 (d) Sir Stephen Hope Carlill  
 (e) Sureesh Mehta
144. What is the tagline of State Bank of India (SBI)?  
 (a) A tradition of Trust  
 (b) Your Faithful and Friendly Financial Partner  
 (c) We understand your world  
 (d) Pure Banking, Nothing Else  
 (e) Much more to do with you in Focus
145. Which bank has become the top merchant acquiring bank in the country?  
 (a) ICICI (b) SBI  
 (c) PNB (d) BoB  
 (e) None of the above
146. In which year was the 1st Maiti Gyan Peeth Puraskar ceremony held?  
 (a) 1997 (b) 2013  
 (c) 2016 (d) 2015  
 (e) 1986
147. Who is the Chairman of Indian Space Research Organisation (ISRO)?  
 (a) Thekkethil Kochandy Alex  
 (b) K. Radhakrishnan  
 (c) Tapan Misra  
 (d) Satya N. Atluri  
 (e) A. S. Kiran Kumar
148. In which year did the Foreign Account Tax Compliance Act (FATCA) come into effect?  
 (a) 2007 (b) 2008  
 (c) 2010 (d) 2013  
 (e) 2015
149. What is India's rank in creating jobs in renewable energy sector in 2015?  
 (a) 6 (b) 7  
 (c) 5 (d) 9  
 (e) 10
150. The Reserve Bank of India (RBI) directed that all banks and white-label ATM operators should have ..... chips and pin based card infrastructure on the cards.  
 (a) EMP (b) MS-CHAP  
 (c) DualECDRBG (d) EMV  
 (e) SHA-1
151. Which country is going to fund two road projects in North-East India?  
 (a) Germany (b) Israel  
 (c) Ukraine (d) UK  
 (e) Japan
152. Which of the following businessmen is listed in Forbes' list of 40 most powerful people in the financial world?  
 (a) Jamshyd Godrej (b) Mukesh Ambani  
 (c) Uday Kotak (d) Gautam Thapar  
 (e) Savji Dholakia
153. Name the cricket club which has released the first ever app on Laws of Cricket.  
 (a) Lancashire (b) Sydney Thunder  
 (c) Sydenham Cricket Club (d) Cornwall Cricket Club  
 (e) Marylebone Cricket Club
154. A.R. Rahman who is India's famous composer, singer-songwriter, music producer, musician and philanthropist is from which state?  
 (a) Kerala (b) Tamil Nadu  
 (c) Maharashtra (d) Delhi  
 (e) Andhra Pradesh
155. Which country has unveiled a new intellectual property rights policy (IPR)?  
 (a) China (b) USA  
 (c) India (d) Japan  
 (e) UK

2016-12

SBI Clerk Mains Solved Paper-2016

156. Name the web portal launched by the Government which is an e-Bidding & e-Reverse Auction portal for acquisition of short-term by the Power Distribution Companies (DISCOMs)?  
 (a) DEEP (b) DEEPA  
 (c) DEEPIKA (d) DEEPAM  
 (e) DEEPAK
157. Which bank has launched India's first contactless credit card for small and mid-sized enterprises (SMEs)?  
 (a) Bank of Baroda (b) ICICI  
 (c) HDFC (d) SBI  
 (e) Punjab National Bank
158. Government has launched 2nd phase of Pradhanmantri Ujjwala Yojana in  
 (a) Uttar Pradesh (b) Gujarat  
 (c) Maharashtra (d) Bihar  
 (e) Tamil Nadu
159. In which year will the government set up the Monetary Policy Panel Committee?  
 (a) 2016 (b) 2018  
 (c) 2017 (d) 2019  
 (e) 2020
160. How many banks will merge with the State Bank of India (SBI) in the year 2016?  
 (a) 12 (b) 6  
 (c) 8 (d) 9  
 (e) 5
161. Name the Act under which taxes are collected in India?  
 (a) The Income Tax decree of 1968  
 (b) The Income Tax Act, 1953  
 (c) The Income Tax Act, 1949  
 (d) Income Tax Act, 1961  
 (e) The Income Tax Act, 1950
162. Which bank has launched SmartUp, a dedicated solution for startups, to fulfil all their banking needs?  
 (a) SBI (b) ICICI  
 (c) HDFC (d) Bank of Baroda  
 (e) Punjab National Bank
163. In which country is the Internet Corporation for Assigned Names and Numbers (ICANN) headquartered?  
 (a) Sweden (b) UK  
 (c) France (d) Switzerland  
 (e) USA
164. In response to which disease did the World Bank launch a \$500 million insurance fund?  
 (a) Malaria (b) Dengue  
 (c) Encephalitis (d) Tropical Nulcer  
 (e) Ebola
165. Aadhar card has a ..... digit unique identity number.  
 (a) 12 (b) 13  
 (c) 15 (d) 20  
 (e) 18
166. The government appoints ..... Deputy Governors to the Reserve Bank of India (RBI).  
 (a) 5 (b) 3  
 (c) 2 (d) 6  
 (e) 4
167. To mark the 475th birth anniversary of ..... , Government has released a commemorative coin of ` 100 and a circulation coin of ` 10.  
 (a) Hemchandra Vikramaditya  
 (b) Vashwantrao Holkar  
 (c) Prithviraj Chauhan  
 (d) Maharana Pratap  
 (e) Nana Fadnavis
168. Which bank has launched India's G-Secs facility to retail customers via ATMs?  
 (a) IDBI (b) ICICI  
 (c) SBI (d) HDFC  
 (e) Federal Bank
169. Which state has banned diesel taxis from May 1, 2016?  
 (a) Delhi (b) Maharashtra  
 (c) Haryana (d) Tamil Nadu  
 (e) Bihar
170. Name the city which has been declared as a declared 'smoke-free city'.  
 (a) Delhi (b) Imphal  
 (c) Agartala (d) Gangtok  
 (e) Kohima
171. Who is the Chairman of National Bank for Agriculture and Rural Development (NABARD)?  
 (a) Harsh Kumar Bhanwala  
 (b) Rajiv Takru  
 (c) Prakash Bakshi  
 (d) N. Kamakodi  
 (e) Sri Umesh Chandra
172. Name the law firm which is news due to the Panama Papers.  
 (a) Conyers Dill & Pearman  
 (b) Harney Westwood & Riegels  
 (c) Maurant Ozannes  
 (d) Maples and Calder  
 (e) Mossack Fonseca
173. India has recently signed four Memorandum of Understandings (MoUs) in various sectors to boost bilateral cooperation with which country?  
 (a) Singapore (b) Malaysia  
 (c) Indonesia (d) Samoa  
 (e) Papua New Guinea
174. Government has raised the employees provident fund (EPF) rate to ..... % for 2015-16.  
 (a) 9 (b) 10  
 (c) 8.9 (d) 8.8  
 (e) 9.2
175. Name the committee formed by the Reserve Bank of India (RBI) to ease compliance reporting norms for banks.  
 (a) Ghosh (b) Sharma  
 (c) Jilani (d) Patwardhan  
 (e) Patil
176. Name the scheme launched by the Railways Ministry to prevent accidents.  
 (a) Rashtriya Rail Sanraksha Kosh  
 (b) Rail Suraksha Kawach  
 (c) Rashtriya Rail Kushal  
 (d) Rail Kushalta Yojana  
 (e) Rashtriya Rail Salamati Kosh
177. In which year was the Goldman Sachs bank established?  
 (a) 1869 (b) 1876  
 (c) 1901 (d) 1799  
 (e) 2002

## SBI Clerk Mains Solved Paper-2016

2016-13

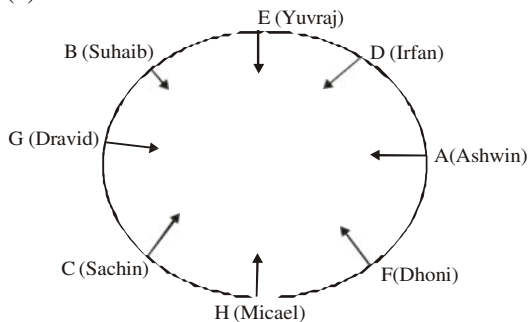
178. Government has hiked the minimum wage for contract workers to Rs .....per month  
 (a) 9500 (b) 9000  
 (c) 10000 (d) 11000  
 (e) 12000
179. Name the country which launched the X-2 fighter craft.  
 (a) Israel (b) USA  
 (c) China (d) Spain  
 (e) Japan
180. Name the businessman who has been named as World's Most Admired Man 2016.  
 (a) Carlos Slim (b) Mark Zuckerberg  
 (c) Warren Buffett (d) Bill Gates  
 (e) Larry Ellison
181. Which bank has decided to close 24 branches in India?  
 (a) ABN AMRO (b) HSBC  
 (c) Credit Suisse (d) Standard Chartered  
 (e) Deutsche Bank
182. Which bank has reported a massive loss of ` 5,367 crore for the quarter ending March 2016?  
 (a) Punjab National Bank  
 (b) State Bank of Bikaner & Jaipur  
 (c) UCO Bank  
 (d) Union Bank of India  
 (e) Allahabad Bank
183. In which city is the Multi Commodity Exchange of India Ltd (MCX) headquartered?  
 (a) Bengaluru (b) Mumbai  
 (c) Delhi (d) Chennai  
 (e) Hyderabad
184. Which company has launched a youtube like video service?  
 (a) Netflix (b) Amazon  
 (c) Redbox (d) King and McGaw  
 (e) Wuaki.tv
185. The Reserve Bank of India(RBI) has permitted business houses to invest in the banks to less than..... %.  
 (a) 15 (b) 9.5  
 (c) 10 (d) 20  
 (e) 8
186. The government has given its approval for a currency swap agreement between the Reserve Bank of India (RBI) and .....  
 (a) National Bank of Austria  
 (b) Central Bank of the United Arab Emirates  
 (c) Czech National Bank  
 (d) Deutsche Bundesbank  
 (e) Reserve Bank of Australia
187. According to .....FDI Confidence Index India is ranked 9th in the 2016 Foreign Direct Investment (FDI) Confidence Index.  
 (a) The Global Dow (b) MSCI World  
 (c) BBC Global 30 (d) FTSEAll-Worldindexseries  
 (e) AT Kearney
188. Which country has been ranked as a top destination for Foreign Direct Investment (FDI)?  
 (a) China (b) India  
 (c) Malaysia (d) Singapore  
 (e) Japan
189. The 8th Banking & Finance Conference was organised by Indian Merchants' Chamber (IMC) and the .....  
 (a) ICTACEM (b) IOV  
 (c) ISTE (d) ICSI  
 (e) ICAI
190. Which company has teamed up with Indian Railways to provide free wi-fi service at railway stations?  
 (a) Google (b) Facebook  
 (c) Twitter (d) Microsoft  
 (e) HCL

## ANSWER KEY

|    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | (c) | 21 | (b) | 41 | (b) | 61 | (e) | 81  | (c) | 101 | (d) | 121 | (e) | 141 | (d) | 161 | (d) | 181 | (b) |
| 2  | (a) | 22 | (a) | 42 | (d) | 62 | (c) | 82  | (b) | 102 | (a) | 122 | (d) | 142 | (b) | 162 | (c) | 182 | (a) |
| 3  | (a) | 23 | (c) | 43 | (b) | 63 | (d) | 83  | (e) | 103 | (b) | 123 | (a) | 143 | (c) | 163 | (e) | 183 | (b) |
| 4  | (d) | 24 | (d) | 44 | (e) | 64 | (e) | 84  | (c) | 104 | (d) | 124 | (b) | 144 | (d) | 164 | (e) | 184 | (b) |
| 5  | (c) | 25 | (e) | 45 | (b) | 65 | (d) | 85  | (a) | 105 | (a) | 125 | (d) | 145 | (b) | 165 | (a) | 185 | (c) |
| 6  | (b) | 26 | (b) | 46 | (e) | 66 | (c) | 86  | (e) | 106 | (c) | 126 | (d) | 146 | (b) | 166 | (e) | 186 | (d) |
| 7  | (c) | 27 | (a) | 47 | (c) | 67 | (c) | 87  | (b) | 107 | (b) | 127 | (a) | 147 | (e) | 167 | (d) | 187 | (e) |
| 8  | (a) | 28 | (b) | 48 | (e) | 68 | (d) | 88  | (a) | 108 | (c) | 128 | (c) | 148 | (c) | 168 | (a) | 188 | (b) |
| 9  | (d) | 29 | (d) | 49 | (c) | 69 | (c) | 89  | (e) | 109 | (d) | 129 | (e) | 149 | (c) | 169 | (a) | 189 | (e) |
| 10 | (d) | 30 | (e) | 50 | (d) | 70 | (e) | 90  | (d) | 110 | (a) | 130 | (b) | 150 | (d) | 170 | (e) | 190 | (a) |
| 11 | (a) | 31 | (d) | 51 | (d) | 71 | (c) | 91  | (c) | 111 | (c) | 131 | (c) | 151 | (e) | 171 | (a) |     |     |
| 12 | (e) | 32 | (a) | 52 | (b) | 72 | (b) | 92  | (c) | 112 | (d) | 132 | (a) | 152 | (c) | 172 | (e) |     |     |
| 13 | (d) | 33 | (d) | 53 | (b) | 73 | (d) | 93  | (c) | 113 | (d) | 133 | (b) | 153 | (e) | 173 | (e) |     |     |
| 14 | (b) | 34 | (b) | 54 | (e) | 74 | (c) | 94  | (b) | 114 | (e) | 134 | (e) | 154 | (b) | 174 | (d) |     |     |
| 15 | (a) | 35 | (d) | 55 | (c) | 75 | (c) | 95  | (b) | 115 | (b) | 135 | (d) | 155 | (c) | 175 | (c) |     |     |
| 16 | (b) | 36 | (d) | 56 | (a) | 76 | (a) | 96  | (a) | 116 | (b) | 136 | (b) | 156 | (a) | 176 | (a) |     |     |
| 17 | (d) | 37 | (a) | 57 | (d) | 77 | (b) | 97  | (a) | 117 | (a) | 137 | (c) | 157 | (b) | 177 | (a) |     |     |
| 18 | (a) | 38 | (c) | 58 | (b) | 78 | (e) | 98  | (a) | 118 | (c) | 138 | (e) | 158 | (b) | 178 | (c) |     |     |
| 19 | (c) | 39 | (c) | 59 | (e) | 79 | (c) | 99  | (a) | 119 | (a) | 139 | (a) | 159 | (c) | 179 | (e) |     |     |
| 20 | (a) | 40 | (c) | 60 | (c) | 80 | (d) | 100 | (a) | 120 | (b) | 140 | (d) | 160 | (b) | 180 | (d) |     |     |

# ANSWERS & EXPLANATIONS

1. (c) In each step 2 words/numbers are arranged. In the final step, the words are arranged in decreasing alphabetical order and numbers are - from 83, largest number, smallest number, second largest, second smallest, and so on.  
 Input : 76 from 48 super itself 56 18 went 22 crazy  
 Step I: 76 from 48 super itself 56 18 22 crazy went  
 Step II : 18 76 from 48 itself 56 22 crazy went super  
 Step III : 56 18 76 from 48 22 crazy went super itself  
 Step IV : 22 56 18 76 48 crazy went super itself from  
 Step V : 48 22 56 18 76 went super itself from crazy
2. (a) 56 23 87 32 days from 24 thirty shop now  
 Input: 32 thirty days from now 56 87 24 23 shop  
 Step I: 87 32 days from now 56 24 23 shop thirty  
 Step II: 23 87 32 days from now 56 24 thirty shop  
 Step III: 56 23 87 32 days from 24 thirty shop now  
 Step IV: 24 56 23 87 32 days thirty shop now from  
 Step V: 32 24 56 23 87 thirty shop now from days
3. (a) Step III: 56 23 87 32 days from 24 thirty shop now  
 Step IV: 24 56 23 87 32 days thirty shop now from  
 Step V: 32 24 56 23 87 thirty shop now from days
4. (d) There is no such step  
 Step I: 52 at deep follow 41 16 road 32 21 sheet  
 Step II: 16 52 at deep follow 41 32 21 sheet road  
 Step III: 41 16 52 at deep 32 21 sheet road follow  
 Step IV: 21 41 16 52 at 32 sheet road follow deep  
 Step V: 32 21 41 16 52 sheet road follow deep at - final
5. (c) 21 41 16 52 at 32 sheet road follow deep  
 Step IV: 21 41 16 52 at 32 sheet road follow deep  
 Step V: 32 21 41 16 52 sheet road follow deep at - final
6. (b)



11. (a) Only conclusion one follows  
 $A < B > C = D > = E$  (clearly B is greater than E and no relation between A and (e))
12. (e) Both conclusion one and two follows  
 $A > B = C < = D = E$  (clearly A is greater than C and E is greater than or equal to B)
13. (d) Neither conclusion one nor second follow  
 $A = B > = C < = D < E$  (clearly E is not equal to A and C is not greater than A)
14. (b) Only conclusion second follows  
 $A > = B > = C = D < E$  (no relation can be made between A and E and clearly E is greater than C)

15. (a) Only conclusion one follows  
 $A > E < C > B = D$  (clearly  $C > D$  and No relation between B and A can be made)

## Solutions (Qs.16-20)

Economy - st

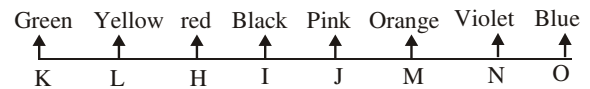
Wealth - gh

Balance - ru

Nations - Zm

Better - dj

21. (b) Two

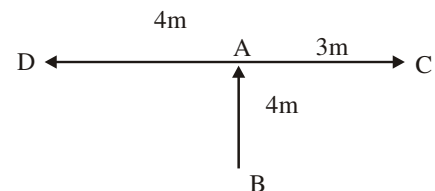


26. (b) @  
 12th from the left end - E  
 5th to the right of E - @
27. (a) w  
 $H R \% M A \$ K P E \odot N W @ F \& Q U / J I D$
30. (e) More than three  
 $CNC \Rightarrow H3R K2P P5E N4W$

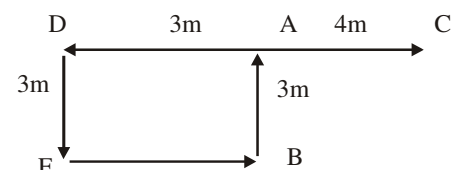
31. (d)

| Floor | Person |
|-------|--------|
| 8     | E      |
| 7     | D      |
| 6     | G      |
| 5     | B      |
| 4     | C      |
| 3     | A      |
| 2     | H      |
| 1     | F      |

36. (d) Either I or II  
**From I**



**From II**



37. (a) 
38. (c) ah koj zee pig => can you take that  
et zee lin ter' means => you may come now  
common Zee => you
39. (c) Both I and II  
K,P>L.....N.....  
K,P>L>M>N>
40. (c) Only I and either II or III  
M(Father)C(Mother) => 2 Daughters => Y and Z  
H is husband of Z  
From I alone we can't identify C is male or female

**Solutions (Qs.41-45)**

| Persons | Dramas        | Days    |
|---------|---------------|---------|
| A       | THRILLER      | SUNDAY  |
| B       | COMEDY        | MONDAY  |
| C       | ACTION        | TUESDAY |
| D       | HORROR        | MONDAY  |
| E       | INSPIRATIONAL | SUNDAY  |
| F       | SUSPENSE      | TUESDAY |
| G       | ROMANTIC      | TUESDAY |

46. (e) K daughter of H, H father of P, so K and P siblings, now Q to be mother of K - P must be son or daughter of Q. so both × and +
47. (c) B wife of P, P son of Z, Z father of K - so P and K siblings, K daughter of O  
So Z and O husband wife, P and K brother sister, B wife of P  
So B is daughter-in-law of O
48. (e) P father of H, H wife of T.  
Now, for M to be grandmother of P, there is no relation given between T and M.
49. (c) Here, ★=0 and Δ=1  
Δ value based on its position  
Unit place 1, tens place 2  
Hundred place 4, thousand place 8 and so on  
So, ★ΔΔ★Δ ⇒ 0+8+4+0+1 ⇒ 13
50. (d) ★ΔΔΔ★ ÷ ★Δ★  
⇒ 0+8+4+2+0 ÷ 0+2+0  
⇒ 14 ÷ 2  
⇒ 7
51. (d)  $? = \frac{68 \times 1288}{100} + \frac{26 \times 734}{100} - 215$   
= 875.84 + 190.84 - 215  
= 876 + 191 - 215  
= 852 ≈ 850
52. (b)  $? = (32.05)^2 - (18.9)^2 - (11.9)^2$   
= 1027 - 357 - 141  
= 1027 - 498  
= 529 ≈ 530

53. (b)  $? = \frac{6578 \times 15}{67 \times 6} = 250$

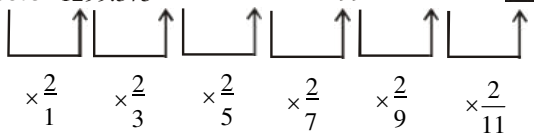
54. (e)  $? = \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{169}$   
=  $\frac{680}{45} \times \frac{2130}{23} \times \frac{126}{170} = 1043 \approx 1040$

55. (c)  $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$   
∴  $? = \frac{\sqrt{5687} \times \sqrt{1245} \times 13}{\sqrt{689}}$

=  $\frac{74.4 \times 35.2 \times 13}{26.2} \approx 1320$

56. (a)

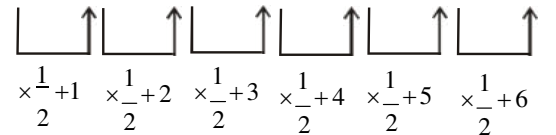
649.6875 1299.375 866.25 346.5 99 22 4



So, 4 will come at the place of question mark (?).

57. (d)

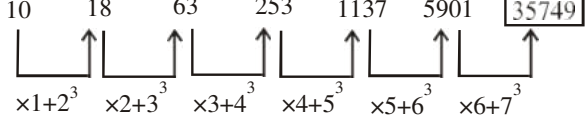
30 16 10 8 8 9 10.5



So, 10.5 will come at the place of question mark (?).

58. (b)

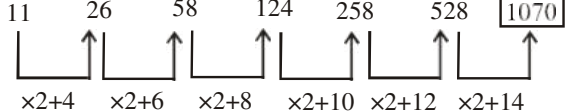
10 18 63 253 1137 5901 35749



So, 35749 will come at the place of question mark (?).

59. (e)

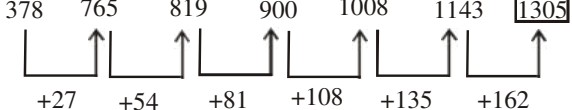
11 26 58 124 258 528 1070



So, 1070 will come at the place of question mark (?).

60. (c)

378 765 819 900 1008 1143 1305





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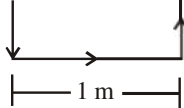
61. (e) **From I:**  $C > A > B$  and  $- > D$

**From II:**  $- > - > C$

**Combining we get**

$E > D > C > A > B$

62. (c) Using statement I:  
If Pawan turns  $90^\circ$  towards his right he will face, South.  
So Ali is facing North.  
Using statement II:



In the end Preeti faces North. so Ali also faces North.

63. (d) Even by using both the statements together we can only determine that number of candidates appeared more than 200.

64. (e) **Using I:**

$T \xrightarrow{5} R$  and T is midway between P and Q.

**Using II:**

$R \xrightarrow{2} Q$

**Using Both:**

$P \xrightarrow{7} T \xrightarrow{5} R \xrightarrow{2} Q$

65. (d) Even by using both the statements together we cannot determine the gender of B. So A can have one or two brothers.

66. (c) Let the money of C be  $x$ .

According to the question,

$$\text{Total money of B} = x + x + 50\% = x + \frac{50x}{100} = \frac{3x}{2}$$

$$\text{Total money of A} = 2 \times \frac{3x}{2} = 3x$$

Average money of three persons = 12000

$$\therefore \text{Total money to three} = 12000 \times 3$$

$$\therefore 3x + \frac{3x}{2} + x = 12000 \times 3$$

$$\frac{6x + 3x + 2x}{2} = 36000$$

$$3x = \frac{3 \times 7200}{11}$$

$$\therefore x = \frac{36000 \times 2}{11} = \frac{72000}{11}$$

Now, money of A

$$= 3x = 3 \times \frac{72000}{11} = \frac{216000}{11}$$

67. (c) Total number of students = 480

Percentage of total students passed

$$= 75\% \text{ of total students} = \frac{75 \times 480}{100} = 360 \text{ students}$$

Now, using the condition from the question,

Let the number of boys be  $x$ .

Then,  $70\% \text{ of } x + 85\% \text{ of } (480 - x) = 360$

$$\Rightarrow \frac{75 \times x}{100} + \frac{85 \times (480 - x)}{100} = 360$$

$$\Rightarrow 70x - 85x + 40800 = 36000$$

$$\Rightarrow 40800 - 36000 = 85x - 70x$$

$$\Rightarrow 4800 = 15x \Rightarrow x = \frac{4800}{15} = 320$$

$\therefore$  There are 320 boys who appeared for the examination.

68. (d) Let the weight of fresh grapes be  $x$ .

$$\text{Quantity of water in it} = \frac{80}{100} \times x = \frac{4x}{5}$$

$$\text{Quantity of pulp in it} = \left( x - \frac{4x}{5} \right) = \frac{x}{5}$$

Quantity of water in 500 kg dry

$$\text{grapes} = \frac{10}{100} \times 500 = 50 \text{ kg}$$

$$\therefore \text{Quantity of pulp in it} = (500 - 50) = 450 \text{ kg}$$

$$\frac{x}{5} = 450$$

$$\therefore x = 2250 \text{ kg}$$

69. (c) If the principal =  $P$  and interest =  $R\%$

Then, required ratio

$$\frac{P \times R \times 12}{100} = \frac{12}{18} = \frac{2}{3} = 2 : 3$$

70. (e) Let total number of employees in beginning =  $8K$  and total number of employees in present =  $7K$

Let salary of an employee in beginning =  $51$

and salary of an employee in present =  $61$

$\therefore$  Total salary in beginning

$$= 8K \times 51 = 40K1$$

and total salary in present

$$= 7K \times 61 = 42K1$$

Required ratio =  $40K1 : 42K1$

$$= 20 : 21$$

Clearly, salary is increased.

71. (c) A's share : B's share : C's share

$$(20000 \times 12) : (25000 \times 4) : (15000 \times 8)$$

$$= 240000 : 100000 : 120000$$

$$= 24 : 10 : 12$$

$$= 12 : 5 : 6$$

Let A's share =  $12x$

B's share =  $5x$

C's share =  $6x$

According to the question,

$$12x + 5x + 6x = 23000 \Rightarrow 23x = 23000$$

- $\therefore x = \frac{23000}{23} = 1000$   
 $\therefore C's \text{ share} = 6x = 6 \times 1000 = 6000$   
 72. (b) Reqd cost  
 $= 4 \times \sqrt{361} \times 62 = 4 \times 19 \times 62 = 4712$   
 73. (d) By rule of fraction  
 $\text{cost price} = 1242 \times \frac{100}{90} \times \frac{100}{115} = 1200$   
 74. (c) Supervisor's age  
 $= 32 + 6 = 38 \text{ years}$   
 75. (c) Speed of train =  $\frac{\text{Length (platform + train)}}{\text{Time}}$   
 $= \frac{175 + 35}{12} = \frac{210}{12} \text{ m/sec}$   
 $= \frac{210}{12} \times \frac{18}{5} \text{ kmph} = 63 \text{ kmph}$   
 76. (a) Required percentage =  $\frac{42}{490} \times 100 = 8.571429$   
 77. (b) Required ratio =  $90 : 60 = 3 :$   
 78. (e) Required percentage =  $\frac{64}{640} \times 100 = 10\%$   
 79. (c) Required ratio =  $280 : 210 = 4 : 3$   
 80. (d) Required percentage =  $\frac{45}{225} \times 100 = 20\%$   
 81. (c) Ratio of income (A's : C's) =  $18 : 3 = 6 : 1$   
 $\therefore \text{Ratio of their exp.} = \frac{6x \times \frac{100}{120}}{x \times \frac{100}{225}} = 25 : 4$   
 83. (e) Profit for these Cos. in ` cr  

| A  | C  | D    | E  | F   |
|----|----|------|----|-----|
| 90 | 18 | 64.3 | 50 | 145 |

  
 84. (c) ` 280 cr  
 85. (a) Income of Company 'F' =  $750 \times \frac{124}{100}$   
 $\therefore \text{Total income of all the Cos.}$   
 $= 750 \times \frac{124}{100} \times \frac{100}{25} = ` 3720 \text{ cr}$   
 86. (e) Let the present ages of Raj and Radha be  $4x$  and  $9x$   
 Then, according to the question,  
 $9x = 2(9x - 12) - 32$   
 $\Rightarrow 9x = 27 \Rightarrow x = 3 \text{ yrs}$   
 Raj's present age =  $4x = 12 \text{ yrs}$   
 After 5 yrs,  
 Raj's age will be  $12 + 5 = 17 \text{ yrs}$   
 87. (b) Ajay's score =  $63 + 30 + 93$   
 Rahul's score =  $93 - 15 = 78$   
 Manish's + Suresh's score  
 $= 63 \times 3 - 78 = 189 - 78 = 111$

88. (a) Amount reinvested in Equity Funds = 94500  
 Amount reinvested in Debt + Equity  
 $\text{Funds} = 94500 \times \frac{13}{7} = 175500$   
 Amount invested earlier in Debt +  
 $\text{Equity Funds} = \frac{175500}{1.3} = 135000$   
 Original amount invested in equity fund  
 $= \frac{5}{9} \times 135000 = 75000$   
 89. (e) Let the length and breadth of the original rectangle be  $L$  m and  $B$  m respectively. After increasing the length by 20% and decreasing the breadth by 20%, area is 192.  $(1.2L) \times (0.8B) = 192$  or,  $0.96LB = 192$   
 $LB = 200$   
 90. (d) Total number of letters is 7, and these letters can be arranged in  $7!$  ways  
 $= 1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 = 5040 \text{ ways}$   
 There are seven letters in the word THERAPY including 2 vowels. (E, A) and five consonants. Consider two vowels as one letters, we have 6 letters which can be arranged in  ${}^6P_6 = 6!$  ways. But vowels can be arranged in  $2!$  ways. Hence, the number of ways, all vowels will come together  
 $= 6! \times 2! = 1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 2 = 1440$   
 Total number of ways in which vowels will never come together  
 $= 5040 - 1440 = 3600$   
 92. (c)  $15 \times 5 = 75$   
 $4 \times 50 = 200$   
 $6 \times 75 = 450$   
 $5 \times 20 = 100$   
 Total =  $75 + 200 + 450 + 100 = ` 825$   
 92. (c) Here, there are four quantities, examiner, no. of answer papers, day and hour. We have to calculate hours. Hence the quantity 'hour' should be in the last column. Following relationship exists:  
 (i) Less examiners, more hours (inverse)  
 (ii) More answer papers, more hours (direct)  
 (iii) More days, less hours (inverse)  
 Hence,  

| Examiner | Answer Papers | Days | Hours |
|----------|---------------|------|-------|
| 4 ↑      | 1 ↓           | 10 ↑ | 5 ↓   |
| 2        | 2             | 20   | $x$   |

Again,  
 $\left. \begin{array}{l} 2 : 4 \\ 1 : 2 \\ 20 : 10 \end{array} \right\} = :: 5 : x$   
 or,  $2 \times 1 \times 20 \times x = 4 \times 2 \times 10 \times 5$   
 $\therefore x = \frac{4 \times 2 \times 10 \times 5}{2 \times 1 \times 20} = 10 \text{ hour per day}$

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94. (b) Second number =  $\frac{1}{4} \times 2960 = 740$

Let the first number be x.

$$\frac{5}{9}x = \frac{25}{100} \times 740$$

$$x = \frac{9}{5} \times \frac{1}{4} \times 740 = 333$$

$$30\% \text{ of 1st number} = \frac{30}{100} \times 333 = 99.9$$

95. (b) Total girls =  $\frac{12}{100} \times 250 = 30$

$$\text{Total bots} = 250 - 30 = 220$$

Each boy's monthly fee

$$= 1.24 \times 450 = 558$$

Total monthly fee of boys and girls together

$$= (220 \times 558) + (30 \times 450) = 122760 + 13500 = 136260$$

96. (a) I.  $\sqrt{289x} + \sqrt{25} = 0$

$$\text{or, } \sqrt{289x} = -\sqrt{25}$$

squaring both sides, we get  $289x = 25$

$$x = \frac{25}{289}$$

II.  $\sqrt{676y} + 10 = 0$

$$\text{or, } \sqrt{676y} = -10$$

Squaring both sides, we get  $676y = 100$

$$y = \frac{100}{676} \quad \therefore y > x$$

97. (a) I.  $8x^2 - 78x + 169 = 0$

$$8x^2 - 52x - 26 + 169 = 0$$

$$4x(2x - 13) - 13(2x - 13) = 0$$

$$(2x - 13)(4x - 13) = 0$$

$$\therefore x = \frac{13}{2} \text{ or } \frac{13}{4} = 6.5 \text{ or } 3.25$$

II.  $20y^2 - 52y - 65y + 169 = 0$

$$\Rightarrow 20y^2 - 52y - 65y + 169 = 0$$

$$\Rightarrow 4y(5y - 3) - 13(5y - 13) = 0$$

$$\Rightarrow (5y - 13)(4y - 13) = 0$$

$$\therefore y = \frac{13}{5} \text{ or } \frac{13}{4} = 2.6 \text{ or } 3.25$$

$$\therefore x > y$$

98. (a) I.  $\frac{15}{\sqrt{x}} + \frac{9}{\sqrt{x}} = 11\sqrt{x}$

$$\frac{15+9}{\sqrt{x}} = 11\sqrt{x} \quad 24 = x$$

$$\therefore x = \frac{24}{11} = 2.18$$

II.  $\frac{\sqrt{y}}{4} + \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

$$\frac{3\sqrt{y} + 5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$$

$$8y = 12$$

$$y = 1.5$$

99. (a) I.  $\frac{8}{\sqrt{x}} + \frac{6}{\sqrt{x}} = \sqrt{x}$

$$\frac{14}{\sqrt{x}} = \sqrt{x}$$

$$x = 14$$

$$x > y$$

II.  $y^3 - \frac{(14)^2}{\sqrt{y}} = 0$

$$y^3 = \frac{(14)^2}{\sqrt{y}}$$

$$x^{3+\frac{1}{2}} = (14)^2$$

$$y^{7/2} = (14)^2$$

100. (a) I.  $x^2 - 208 = 233$

$$x^2 = 233 - 208$$

$$x = \sqrt{25}$$

$$= \pm 5$$

II.  $y^2 - 47 + 371 = 0$

$$y^2 + 324 = 0$$

$$y^2 = -324$$

$$y = \sqrt{-324}$$

Relationship cannot be established.

# SBI Clerk Prelim Solved Paper-2016

Preliminary Exam held on 4<sup>th</sup> June 2016

(Based on Memory)

Time : 60 minutes

Max. Marks : 100

## Numerical Ability

**DIRECTIONS (Qs. 1-5):** What should come in place of the question mark (?) in the following questions?

- $\sqrt{1521} \div 3 \times 12 = ?$   
(a) 158 (b) 165  
(c) 167 (d) 156  
(e) None of these
- $672 \div 24 \times 18 + 153 - 345 = ?$   
(a) 318 (b) 324  
(c) 314 (d) 308  
(e) None of these
- $\frac{3}{4}$  of 26 % of 850 = ?  
(a) 165.75 (b) 160.35  
(c) 163.75 (d) 167.75  
(e) None of these
- $144 \div 8 \div ? = 9$   
(a) 3 (b) 2  
(c) 4 (d) 6  
(e) None of these
- ?% of 590 - 11.8 = 236  
(a) 48 (b) 45  
(c) 42 (d) 41  
(e) None of these
- $(8)^2$  % of ? = 723 + 45  
(a) 1200 (b) 1400  
(c) 1100 (d) 1020  
(e) None of these
- $5554 - 333 + 45 = ? + 2525$   
(a) 2174 (b) 2417  
(c) 2714 (d) 2741  
(e) None of these
- $3\frac{1}{4} + 2\frac{1}{2} + 6\frac{1}{6} = ?$   
(a)  $13\frac{11}{12}$  (b)  $11\frac{11}{12}$   
(c)  $12\frac{11}{12}$  (d)  $15\frac{11}{12}$   
(e) None of these
- $(450 \div 30)^2 - (12)^2 = (?)^2$   
(a)  $9^2$  (b)  $-9^2$   
(c)  $\sqrt{9}$  (d) 81  
(e) None of these
- $56.73 + 32.88 + 45.23 = ?$   
(a) 130.84 (b) 134.84  
(c) 140.84 (d) 144.84  
(e) None of these
- The speed of a truck is  $\frac{1}{3}$ rd the speed of a train. The train covers 1230 km in 5 hours. What is the speed of the truck?  
(a) 85 km./hr (b) 82 km./hr  
(c) 81 km./hr (d) 87 km./hr  
(e) None of these
- What approximate value should come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value).  
 $\sqrt{343} = ?$   
(a) 18 (b) 38  
(c) 58 (d) 78  
(e) 98
- Bina's monthly income is 90% of Anita's monthly income. The total of both their monthly incomes is Mr. Sen's monthly income. Mr. Sen's annual income is 7,75,200. What is Bina's monthly income?  
(a) ₹ 34,000 (b) ₹ 36,000  
(c) ₹ 30,600 (d) ₹ 30,000  
(e) None of these
- What is the value of three fourth of sixty per cent of 480?  
(a) 216 (b) 218  
(c) 212 (d) 214  
(e) None of these
- The height of 5 boys is recorded as, 146 cm, 154 cm, 164 cm, 148 cm and 158 cm. What is the average height of all these boys?  
(a) 152cm (b) 158cm  
(c) 156cm (d) 154cm  
(e) None of these
- Pravin purchased 25 kg of rice at the rate ₹ 45 per kg and 12 kg of pulses at the rate of ₹ 28 per kg. What is the total amount that he paid to the shopkeeper?  
(a) ₹ 1,466 (b) ₹ 1,416  
(c) ₹ 1,461 (d) ₹ 1,471  
(e) None of these
- If one man or three women or five boys can do a piece of work in 46 days then how many days will one man, one woman and one boy together take to complete the same piece of work?  
(a) 30 days (b) 32 days  
(c) 35 days (d) 40 days  
(e) None of these

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SBI Clerk Prelim Solved Paper-2016

18. The perimeter of a rectangle is 60 cm and its breadth is 12 cm. What is the area of the rectangle?  
 (a)  $261 \text{ cms}^2$  (b)  $263 \text{ cms}^2$   
 (c)  $213 \text{ cms}^2$  (d)  $216 \text{ cms}^2$   
 (e) None of these
19. A train crossed a platform in 43 seconds. The length of the train is 170 metres. What is the speed of the train?  
 (a) 233 km./hr (b) 243 km./hr  
 (c) 265 km./hr (d) Cannot be determined  
 (e) None of these
20. If a number is multiplied by three-fourth of itself, the value thus obtained is 10800. What is that number?  
 (a) 210 (b) 180  
 (c) 120 (d) 160  
 (e) 140
21. If three-fourth of a number is subtracted from the number, the value so obtained is 163. What is that number?  
 (a) 625 (b) 562  
 (c) 632 (d) 652  
 (e) None of these
22. What will be the compound interest accrued on a sum of ₹ 35000 at the rate of 8 p.c.p.a in 2 years?  
 (a) ₹ 5,884 (b) ₹ 5,284  
 (c) ₹ 5,524 (d) ₹ 5,428  
 (e) None of these
23. The area of a square is twice the area of a circle. The area of the circle is  $392 \text{ cm}^2$ . What is the length of the side of the square?  
 (a) 28 cm (b) 26 cm  
 (c) 24 cm (d) 22 cm  
 (e) None of these
24. It is required to get 40% marks to pass an exam. A candidate scored 200 marks and failed by 8 marks. What were the maximum marks of that exam?  
 (a) 530 (b) 540  
 (c) 502 (d) Cannot be determined  
 (e) None of these
25. The sum of five consecutive numbers is 190. What is the sum of the largest and the smallest number?  
 (a) 75 (b) 77  
 (c) 76 (d) 73  
 (e) None of these

**DIRECTIONS (Qs. 26-30):** What will come in place of the question mark (?) in the following number series?

26. 1 7 49 343 (?)  
 (a) 16807 (b) 1227  
 (c) 2058 (d) 2401  
 (e) None of these
27. 13 20 39 78 145 (?)  
 (a) 234 (b) 244  
 (c) 236 (d) 248  
 (e) None of these
28. 12 35 81 173 357 (?)  
 (a) 725 (b) 715  
 (c) 726 (d) 736  
 (e) None of these

29. 3 100 297 594 991 (?)  
 (a) 1489 (b) 1479  
 (c) 1478 (d) 1498  
 (e) None of these
30. 112 119 140 175 224 (?)  
 (a) 277 (b) 276  
 (c) 287 (d) 266  
 (e) None of these

**DIRECTIONS (Qs. 31-35):** Study the following table carefully to answer the questions that follow: Number (N) of Six types of Electronic Product Sold by Six different stores in a month and the price per product (P) (price in Rs. 000) charged by each store.

| Store   | A  |     | B  |     | C  |      | D  |      | E  |      | F  |      |
|---------|----|-----|----|-----|----|------|----|------|----|------|----|------|
| Product | N  | P   | N  | P   | N  | P    | N  | P    | N  | P    | N  | P    |
| L       | 54 | 135 | 48 | 112 | 60 | 104  | 61 | 124  | 40 | 136  | 48 | 126  |
| M       | 71 | 4.5 | 53 | 3.8 | 57 | 5.6  | 49 | 49   | 57 | 5.5  | 45 | 4.7  |
| N       | 48 | 12  | 47 | 18  | 52 | 15   | 54 | 11.5 | 62 | 10.5 | 56 | 11   |
| O       | 52 | 53  | 55 | 48  | 48 | 50   | 54 | 49   | 59 | 47   | 58 | 51   |
| P       | 60 | 75  | 61 | 68  | 56 | 92   | 44 | 84   | 46 | 76   | 59 | 78   |
| Q       | 43 | 16  | 44 | 15  | 45 | 14.5 | 48 | 15.6 | 55 | 18.2 | 55 | 14.9 |

31. The number of L type products sold by Store F is what per cent of the number of the same type of products sold by Store E?  
 (a) 76.33 (b) 124  
 (c) 83.33 (d) 115  
 (e) None of these
32. What is the ratio of the total number of N and L type products together sold by Store D and that of the same products sold by Store A?  
 (a) 119:104 (b) 102:115  
 (c) 104:115 (d) 117:103  
 (e) None of these
33. What is the average price per product charged by all the Stores together for Product Q?  
 (a) Rs 14,700 (b) Rs 15,700  
 (c) Rs 15,200 (d) Rs 14,800  
 (e) None of these
34. What is the difference in the amount earned by Store A through the sale of P type products and that earned by Store B through the sale of Q type products?  
 (a) Rs 38.4 lakhs (b) Rs 0.384 lakh  
 (c) Rs 3.84 lakhs (d) Rs 384 lakhs  
 (e) None of these
35. What is the total amount earned by Store C through the sale of M and O type products together?  
 (a) Rs 2719.2 lakhs (b) Rs 271.92 lakhs  
 (c) Rs 2.7192 lakhs (d) Rs 27.192 lakhs  
 (e) None of these



Reasoning Ability

**DIRECTIONS (Qs. 36-40):** Study the following information carefully and answer the questions given below?

Eight friends, A, B, C, D, E, F, G and H, are sitting around a circular table facing the centre. Further, it is known that

- (A) D sits opposite H and E sits on the immediate left of H.  
(B) B cannot be an immediate neighbour of either D or H and sits third to the left of F.  
(C) G sits second to the right of C.  
(D) F is not an immediate neighbour of H.

36. Who is sitting exactly between E and F?

- (a) B (b) A  
(c) H (d) C  
(e) None of these

37. How many persons are sitting between A and C, starting from C in clockwise direction?

- (a) None (b) One  
(c) Two (d) Three  
(e) More than three

38. What will come in place of question mark in the following series according to the above seating arrangement?

- D, A, C, F, ?  
(a) H (b) E  
(c) G (d) B  
(e) None of these

39. Four of the following five are alike in a certain way based on their seating positions, and so form a group. Which is the one that does not belong to that group?

- (a) AE (b) CH  
(c) BG (d) CE  
(e) FD

40. What is the position of A with respect to G?

- (a) Third to the left (b) Third to the right  
(c) Second to the left (d) Fifth to the right  
(e) None of these

**DIRECTIONS (Qs. 41-45):** Study the following arrangement carefully and answer the questions given below.

P 7 3 G # R E \$ 4 F K 1 U % W H 2 N I 5 B Q Y 6 @ H M β 8 V D

41. If all the symbols and numbers are dropped from the above arrangement, which of the following will be the fifteenth from the right end?

- (a) P (b) R  
(c) E (d) F  
(e) None of these

42. How many such numbers are there in the above arrangement, each of which is immediately preceded by a symbol and immediately followed by a letter?

- (a) None (b) One  
(c) Two (d) Three  
(e) More than three

43. Which of the following is seventh to the left of twelfth from the right end of the above arrangement?

- (a) 1 (b) %  
(c) U (d) H  
(e) None of these

44. What will come in place of question mark in the following series based upon the given arrangement?

7#G, EF4, 1W%, 251, ?

- (a) YH@ (b) Q@6  
(c) 52N (d) YBQ  
(e) None of these

45. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

- (a) EGR (b) K\$F  
(c) β @ M (d) NB2  
(e) 5% KU

**DIRECTIONS (Qs. 46-50):** In these questions, the following symbols are used with different meaning as follows:

'A#B' means 'A is neither greater than nor equal to B'.

'A@B' means 'A is neither equal to nor smaller than B'.

'A%B' means 'A is neither smaller than nor greater than B'.

'A\$B' means 'A is not smaller than B'.

'A@B' means 'A is not greater than B'.

Now, in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are true. Give answer.

- (a) if only conclusion I is true.  
(b) if only conclusion II is true.  
(c) if either conclusion I or II is true.  
(d) if neither conclusion I nor II is true.  
(e) if both conclusions I and II are true.

46. **Statements :** Z # F, R @ F, D @ R

**Conclusions :** I. Z # R II. D @ Z

47. **Statements :** R @ D, D @ W, B @ W

**Conclusions :** I. W # R II. D @ B

48. **Statements :** M @ R, R % D, D @ N

**Conclusions :** I. M @ N II. N \$ R

49. **Statements :** H \$ V, V % M, K @ M

**Conclusions :** I. K @ V II. M @ H

50. **Statements :** K # T, T \$ B, B @ F

**Conclusions :** I. F \$ T II. K # B

**DIRECTIONS (Qs. 51-55):** Read the following information carefully and answer the questions given below it-

Six exams Maths, science, History, Economics, English and Hindi are to be scheduled starting from 2<sup>nd</sup> March and ending on 8<sup>th</sup> march with Sunday being an off day, not necessarily in the same order. Each of the exam has different time duration: 40 mins, 50 mins, 60 mins, 75 mins, 90 mins and 100 mins, again not necessarily in the same order.

8<sup>th</sup> march is not Sunday and an exam of 40 mins is scheduled on that day. Maths exam is for less than 60 mins and is scheduled immediately before English exam. There are two exams scheduled between Hindi exam which is for 100 mins and History exam which is for 60 mins. English exam is before Sunday and there are two days between Sunday and Maths exam. Economics exam which is for 75 mins is not scheduled on 2<sup>nd</sup> March. The exam schedules on Saturday is of 100 mins.

51. How many exams are scheduled before Sunday?

- (a) Two (b) One  
(c) Five (d) Three  
(e) None of these

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52. Which of the following combinations of exam - Day - Time Duration is correct ?  
 (a) English - Wednesday - 75 mins  
 (b) Maths - Thursday - 50 mins  
 (c) History - Thursday - 60 mins  
 (d) Hindi - Tuesday - 100 mins  
 (e) None is correct
53. What is the time duration of science exam?  
 (a) 90 mins (b) 75 mins  
 (c) 50 mins (d) 40 mins  
 (e) None of these
54. On which day is Economics exam scheduled?  
 (a) Monday (b) Saturday  
 (c) Tuesday (d) Friday  
 (e) Cannot be determined
55. Which day is sunday?  
 (a) 3rd march (b) 2nd march  
 (c) 5th march (d) 6th march  
 (e) Cannot be determined

**DIRECTIONS (Qs. 56-60):** Read the following statements carefully and answer the questions given below:

The Director of the institute XYZ has announced that six guest lecturers on different areas like Leadership, Decision Making, Syllogism, Motivation, Verbal Reasoning and Group Discussions are to be organised only one on each day from Monday to Sunday.

- (i) Motivation should be organised immediately after Verbal Reasoning.  
 (ii) Syllogism should be organised on Wednesday and should not be followed by Group Discussion.  
 (iii) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion.  
 (iv) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised.
56. Which of the Pairs of lectures were organised on first and last days?  
 (a) Syllogism and Motivation  
 (b) Group Discussion and Syllogism  
 (c) Group Discussion and Decision Making  
 (d) Cannot be determined  
 (e) None of these
57. How many lecturers were organised between Motivation and Syllogism?  
 (a) One (b) Two  
 (c) Three (d) Four  
 (e) None of these
58. Which day will the lecture on Leadership be organised?  
 (a) Tuesday (b) Wednesday  
 (c) Friday (d) Can't be determined  
 (e) None of these
59. On which day there is no lecture?  
 (a) Sunday (b) Monday  
 (c) Tuesday (d) Wednesday  
 (e) None of these

60. Which of the following information is not required for the above arrangements?  
 (a) Only (i) (b) Only (ii)  
 (c) All are required (d) Only (iii)  
 (e) None of these
61. Ravi is Raju's father, Sudha is Raju's grandmother, Radha is Sudha's sister, Rani is Ravi's wife. How is Ravi related to Radha?  
 (a) Sister (b) Niece  
 (c) Sister-in-law (d) Maternal uncle  
 (e) None of these

**DIRECTIONS (Qs. 62-63):** Study the following information to answer the given questions.

In a certain code, 'strong financial economy' is written as 'mo tic su', 'financial inclusion needed' is written as 'da ra su' and 'economy crisis inclusion' is written as 'ye da mo'.

62. What is the code for 'financial'?  
 (a) da (b) su  
 (c) mo (d) ra  
 (e) Can't be determined
63. What does 'tic' stand for?  
 (a) economy (b) financial  
 (c) strong (d) needed  
 (e) Either economy or strong
64. Which of the following expressions is correct if the expression 'Z > Y > W < V' is definitely correct?  
 (a) V > Y (b) W < Z  
 (c) Z > V (d) Y > V  
 (e) None of these
65. Town D is 13 km towards the East of town A. A bus starts from town A, travels 8 km towards West and takes a right turn. After taking the right turn, it travels 5 km and reaches town B. From town B the bus takes a right turn again, travels 21 km and stops.  
 How far and towards which direction must the bus travel to reach town D?  
 (a) 13 km towards South (b) 5 km towards West  
 (c) 21 km towards South (d) 5 km towards South  
 (e) None of these

**DIRECTIONS (Qs. 66-70):** Study the following information and answer the given questions:

In a certain code language -

'hospital is far from house' is written as 'to ga di ba ni'. 'house' is the hospital bus' is written as 'ru to ni di zi'. 'come from hospital' is written as 'ga ni mo'. 'is the bus late' is written as 'ru zi fa to'.

66. What does the code 'ga' stand for in the given code language?  
 (a) from (b) house  
 (c) far (d) is  
 (e) None of these
67. What is the code for 'late' in the given code language?  
 (a) to (b) fa  
 (c) zi (d) ru  
 (e) None of these

68. What will the code 'fa mo ba' stand for in the given code language?  
 (a) come far late (b) bus far late  
 (c) come far hospital (d) come late from  
 (e) None of these
69. What may the code 'ru mo di' stand for in the given code language?  
 (a) the bus house (b) come from house  
 (c) come the late (d) come the house  
 (e) late is come
70. What is the code for 'hospital' in the given code language?  
 (a) ba (b) di  
 (c) ni (d) ga  
 (e) None of these

### English Language

**DIRECTIONS (Qs. 71-80) :** Read the passage carefully and answer the questions given below it. Certain words/phrases are given in bold to help you locate them while answering some of the questions.

As soon as Krishna learnt of the events at Hastinapura, the game of dice and the exile of the Pandavas, he set out for the forest where the Pandavas, were living. Along with Krishna went many, including men of the Bhoja and Vrishni tribes. Dhristaketu, the king of Chedi country, and the Kekayas, who were all devoted to the Pandavas. They were filled with righteous indignation when they heard of Duryodhana's perfidy and cried out that surely the earth would drink the blood of such wicked people. Draupadi approached Sri Krishna and, in a voice drowned in tears and broken with sobs, told the story of her wrongs.

She said : "I was dragged to the assembly when I had but a single garment on my body. The sons of Dhritarashtra insulted me most outrageously and **gloated** over my agony. They thought that I had become their slave and **accosted** me and treated me as one. Even Bhishma and Dhritarashtra forgot my birth and breeding and my relationship to them. O Janardhana, even my husbands did not protect me from the jeers and the ribald insults of those foul ruffians. Bhima's bodily strength and Arjuna's Gandiva were alike of no avail. Under such supreme provocation even weaklings would have found strength and courage to strike the vile insulter dead. The Pandavas are renowned heroes and yet Duryodhana lives! I, the daughter-in-law of the emperor Pandu, was dragged by my hair. I, the wife of five heroes, was dishonoured. O Madhusudana, even you had deserted me." She stood trembling, utterly unable to continue, for the grief **convulsed** her.

Krishna was deeply moved and he consoled the weeping Draupadi. He said : "Those who **tormented** you will be stricken to death in the bloody quagmire of a lost battle. Wipe your eyes. I solemnly promise that your grievous wrongs shall be amply avenged. I shall help the Pandavas in every way. You will become an empress. The heavens may fall, the Himalayas may split in twain, the earth may crumble or the boundless sea may dry up-but, I tell you verily, my words shall stand, swear this," and Krishna took a solemn vow before Draupadi. This vow, it will be seen, was in perfect accord with the purpose of the Lord's avatars,

as declared in scriptures : "For protecting the righteous, for destroying the wicked and for firmly upholding the law, I am born on Earth age after age." Dhristadyumna also consoled his sister and told her how nemesis would overtake the Kauravas. He said : "I will kill Drona. Shikhandi will cause Bhishma's fall. Bhima will take the lives of the wicked Duryodhana and his brothers. Arjuna will slay Karna, the charioteer's son."

Sri Krishna said : "When this calamity befell you, I was not in Dwaraka. Has I been there, I would never have allowed this fraudulent game of dice to take place. Uninvited, I would have gone there and stirred up Drona, Kripa and the other elders to a sense of duty. I would, at all costs, have prevented this destructive play of dice. When Sakuni was cheating you, I was fighting King Salva, who had **besieged** my city. It was only after I had defeated him that I came to know of the game of dice and the subsequent sordid story. It grieves me that I am not able to remove your sorrows immediately but you know, some water must be lost before a broken dam is restored."

71. Why was Krishna unable to prevent the destructive game of dice?  
 (a) Because he himself was fond of dicing.  
 (b) Because he wanted the Pandavas to be robbed of their property.  
 (c) Because he hated Bhima, Draupadi's husband.  
 (d) Because he was fighting king Salva, who had besieged his city, when she was being cheated by Sakuni  
 (e) None of these
72. Why did the sons of Dhritarashtra insult Draupadi?  
 (a) Because Draupadi had become their slave like her five husbands.  
 (b) Because Draupadi was of low birth and breeding and was merely a kept for them.  
 (c) Because she was an ally of Krishna, whom the sons of Dhritrashtra hated.  
 (d) Because Draupadi had abused Dhritarashtra.  
 (e) None of these
73. Why were Draupadi's husbands helpless to protect her from the insults of wicked sons of Dhritarashtra?  
 (a) Because they were enjoying Draupadi being dragged into and insulted in the court.  
 (b) Because they were turned into slaves and had no right before their masters to interfere with them.  
 (c) Because Draupadi's husbands were disrobed of their clothes and were more concerned about hiding their nudity.  
 (d) Because the Pandavas had no weapons with them to protect Draupadi.  
 (e) None of these
74. What was Krishna's vow to Draupadi?  
 (a) That he will punish the Pandavas for not protecting Draupadi.  
 (b) That he will kill Dhritarashtra for just sitting and watching the sorrows inflicted on Draupadi like a mute spectator.  
 (c) That he will help Pandavas to avenge the Kauravas.  
 (d) That he will destroy the whole Bharata race.  
 (e) All the above

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75. Which of the following is not the purpose of avatars of Lord as declared in the scriptures?
- To protect the righteous
  - To uphold the law
  - To curse the inflictors
  - To destroy the wicked
  - None of these

**DIRECTIONS (Qs. 76-78) :** Choose the word/group of words which is **MOST SIMILAR** in meaning to the word/group of words printed in bold as used in the passage.

76. Gloated
- incited
  - choked
  - rejoiced
  - muffled
  - sympathised
77. Accosted
- addressed
  - attributed
  - conceded
  - ignored
  - scorned
78. Tormented
- agitated
  - exhausted
  - pleased
  - relieved
  - tortured

**DIRECTIONS (Qs. 79-80) :** Choose the word/group of words which is **MOST OPPOSITE** in meaning of the word/group of words printed in bold as used in the passage.

79. Convulsed
- disturbed
  - bothered
  - liked
  - pacified
  - praised
80. Besieged
- captured
  - freed
  - attacked
  - acknowledged
  - plundered

**DIRECTIONS (Qs. 81-85) :** In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningful.

Bangalorean Clawin D'Souza, 22, is a **(81)** online poker fan. So, much so that he gave up his job to take up a career in the game. His parents, of course, did not like the idea, but D'Souza went ahead with this decision. Though he started a bit slow and made very little money **(82)**, gradually he became an expert at the game. "The **(83)** has been great because I am my own boss. I set my goals and I am very **(84)** to achieve them. I love what I'm doing and it doesn't feel like a **(85)** job at all," said D'Souza, who now makes around `90,000 a month playing poker online.

81. (a) inflexible (b) conservative  
(c) bigot (d) diehard  
(e) dogmatic
82. (a) finally (b) initially  
(c) making (d) market  
(e) lending

83. (a) exercise (b) expense  
(c) experience (d) examination  
(e) job
84. (a) experienced (b) devoted  
(c) motivated (d) targeted  
(e) upset
85. (a) pleasant (b) enthusiastic  
(c) motivated (d) vigorous  
(e) jolly

**DIRECTIONS (Qs. 86-90) :** In each question below, four words printed in bold type are given. These are numbered (a), (b), (c) and (d). One of these words printed in bold may either be wrongly spelt or in appropriate in the context of the sentence. Find out the word that is inappropriate or wrongly spelt, if any. The number of that word is your answer. If all the words printed in bold are correctly spelt and appropriate in the context of the sentence then mark (e) i.e. 'All Correct', as your answer.

86. Anushka works with a **(a)** / garment export house **(b)** / and is thirty year old lady **(c)** / with very attractive and gorgeuos personality. **(d)** / No error **(e)**.
87. The management might not be **(a)** / successful in implementing changes **(b)** / if the informed **(c)** / organisation opposes them. **(d)** / No error **(e)**.
88. The practise of telecasting **(a)** / of vacant posts **(b)** / over television is gaining **(c)** / importance these days. **(d)** / No error **(e)**.
89. By using external sources **(a)** / or recruitment, the management **(b)** / can be attracted **(c)** / qualified and trained people. **(d)** / No error **(e)**.
90. The department of pharmaceuticals has told **(a)** / a group of ministers **(b)** / that competition does not **(c)** / necessarily lead to reduction in prices. **(d)** / No error **(e)**.

**DIRECTIONS (Qs. 91-95) :** Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) It so happened that in 1977 it was able to collaborate with other political parties.  
(B) Power was never its objective.  
(C) Then, in 1998, they for power at the centre.  
(D) The job of the Jan Sangh was to defend the RSS.  
(E) They (Hindutva forces) started getting into power.  
(F) When this happened their old leaders Vajpayee and Advani started to see RSS chiefs and leaders as their juniors.
91. Which of the following sentences will come '**FIRST**' after rearrangement?
- A
  - B
  - C
  - D
  - E
92. Which of the following sentences will come '**THIRD**' after rearrangement?
- A
  - B
  - C
  - E
  - F

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93. Which of the following sentences will come '**SECOND**' after rearrangement?  
 (a) B (b) A  
 (c) C (d) D  
 (e) E
94. Which of the following sentences will come '**LAST**' after rearrangement?  
 (a) A (b) B  
 (c) F (d) C  
 (e) D
95. Which of the following sentences will come '**FOURTH**' after rearrangement?  
 (a) A (b) C  
 (c) D (d) B  
 (e) E
96. Cleansing, toning (a) / and moisturiser (b) / are three steps to (c) / accentuate beauty. (d) / No error (e).
97. The principle of unity of (a) / command states that each (b) / participant should be received (c) / orders for only one superior. (d) / No error (e).
98. An important development (a) / in the second halves (b) / of the 19<sup>th</sup> century was (c) / the large-scale industries in India. (d) / No error (e).
99. Sylvia Plath gained (a) / a reputation of one (b) / of the most important American (c) / female poets (d) / No error (e).
100. A more serious criticism of English (a) / by whom attempting to master it (b) / is the chaotic character of our spelling and the frequent lack of (c) / correlation between spelling and pronunciation. (d) / No error (e).

**DIRECTIONS (Qs. 96-100) :** Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. if there is no error, the answer is (e). (Ignore errors of punctuation, if any.)

## ANSW ER KEY

| 1  | (d) | 11 | (b) | 21 | (d) | 31 | (e) | 41 | (b) | 51 | (e) | 61 | (e) | 71 | (d) | 81 | (d) | 91  | (d) |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 2  | (e) | 12 | (b) | 22 | (e) | 32 | (e) | 42 | (c) | 52 | (b) | 62 | (b) | 72 | (a) | 82 | (b) | 92  | (a) |
| 3  | (a) | 13 | (c) | 23 | (a) | 33 | (b) | 43 | (c) | 53 | (d) | 63 | (c) | 73 | (e) | 83 | (c) | 93  | (a) |
| 4  | (b) | 14 | (a) | 24 | (e) | 34 | (a) | 44 | (b) | 54 | (a) | 64 | (b) | 74 | (c) | 84 | (c) | 94  | (c) |
| 5  | (c) | 15 | (d) | 25 | (c) | 35 | (d) | 45 | (d) | 55 | (d) | 65 | (d) | 75 | (c) | 85 | (d) | 95  | (e) |
| 6  | (a) | 16 | (c) | 26 | (d) | 36 | (b) | 46 | (d) | 56 | (e) | 66 | (a) | 76 | (c) | 86 | (d) | 96  | (b) |
| 7  | (d) | 17 | (a) | 27 | (d) | 37 | (c) | 47 | (b) | 57 | (c) | 67 | (b) | 77 | (a) | 87 | (e) | 97  | (c) |
| 8  | (b) | 18 | (d) | 28 | (a) | 38 | (d) | 48 | (b) | 58 | (e) | 68 | (a) | 78 | (e) | 88 | (a) | 98  | (b) |
| 9  | (e) | 19 | (d) | 29 | (e) | 39 | (d) | 49 | (e) | 59 | (c) | 69 | (d) | 79 | (d) | 89 | (b) | 99  | (b) |
| 10 | (b) | 20 | (c) | 30 | (c) | 40 | (b) | 50 | (d) | 60 | (c) | 70 | (c) | 80 | (b) | 90 | (e) | 100 | (e) |



## ANSWERS & EXPLANATIONS

1. (d)  $? = \sqrt{1521 \div 3 \times 12} = \sqrt{3} \times 12 = 156$

2. (e)  $? = 672 \div 24 \times 18 + 153 - 345$   
 $= 28 \times 18 + 153 - 345 = 311.2 \sim 312$

3. (a)  $? = 850 \times \frac{26}{100} \times \frac{3}{4} = 165.75$

4. (b)  $Q144 \div 8 \div ? = 9$   
 $\Rightarrow \frac{144}{8 \times ?} = 9$   
 $\therefore ? = \frac{144}{8 \times 9} = 2$

5. (c)  $Q 590 \times \frac{?}{100} - 11.8 = 236$   
 $\Rightarrow 5.9 \times ? = 236 + 11.8$   
 $\frac{247.8}{5.9} = 42$   
 $\therefore ? = \frac{(8)^2}{5.9} = 2$

6. (a)  $Q ? \times \frac{?}{100} = 723 + 45$   
 $\Rightarrow 0.64 \times ? = 768 \therefore ? = \frac{768}{0.64} = 1200$

7. (d)  $? + 2525 = 5554 - 333 + 45$   
 $\therefore ? = 5266 - 2525 = 2741$

8. (b)  $? = 3\frac{1}{4} + 2\frac{1}{2} + 6\frac{1}{6}$   
 $= \left(3 + 2 + 6\right) + \left(\frac{1}{4} + \frac{1}{2} + \frac{1}{6}\right) = 11 + \left(\frac{3+6+2}{12}\right) = 11\frac{11}{12}$

9. (e)  $Q (?)^2 = (450 \div 30)^2 - (12)^2 = (15)^2 - (12)^2 = 225 - 144 = 81$   
 $= (9)^2$   
 $\therefore ? = 9$

10. (b)  $? = 56.73 + 32.88 + 45.23 = 134.84$

11. (b)  $Q \text{ Speed of the train} = \left(\frac{1230}{5}\right) = 246 \text{ km/hr}$   
 $\therefore \text{Speed of the truck} = \left(\frac{1}{3} \times 246\right) = 82 \text{ km/hr}$

12. (b)  $? = \sqrt{343} = 18.52 \approx 18$

13. (c)  $\text{Sen's monthly income} = \text{Rs} \left(\frac{775200}{12}\right) = 64600$

Let the monthly income of Anita be Rs. x.

$\therefore \text{Bina's monthly income} = \text{Rs} \left(\frac{90 \times x}{100}\right) = 0.9x$

Now, according to the question,  
 $x + 0.9x = 64600$

$\Rightarrow x + \text{Rs} \left(\frac{64600}{1.9}\right) = 34000$

$\therefore \text{Bina's monthly income} = 34000 \times 0.9 = \text{Rs. } 30600$

14. (a)  $\text{Required Value} = 480 \times \frac{60}{100} \times \frac{3}{4} = 216$

15. (d)  $\text{Average height}$   
 $= \frac{146 + 154 + 164 + 148 + 158}{5} = \frac{770}{5} = 154 \text{ cm}$

16. (c)  $\text{Required amount} = (25 \times 45 + 12 \times 28)$   
 $= (1125 + 336) = 1461$

17. (a)  $1 \text{ man} + 1 \text{ woman} + 1 \text{ boy} = \left(\frac{1}{3} + \frac{1}{3} + \frac{1}{3}\right) \text{ boys} = \left(\frac{23}{3}\right) \text{ boys}$   
 $\therefore \text{Required number of days} = \left(\frac{5 \times 46 \times 3}{23}\right) = 30 \text{ days}$

18. (d)  $Q \text{ Length of the rectangle} = \left(\frac{1}{2} \times 60 - 12\right) = 18 \text{ cm}$

$\therefore \text{Area of the rectangle} = (18 \times 12) = 216 \text{ sq. cm}$

19. (d)  $\text{Length of the platform is not given.}$

20. (c)  $\text{Let the number be } x.$   
 Now, according to the question,  
 $x \times \frac{3}{4} x = 10800$

$\Rightarrow x^2 = 10800 \times \frac{4}{3} = 14400$

$\therefore x = \sqrt{14400} = 120$

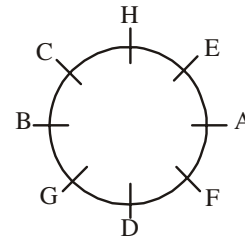
21. (d)  $\text{Let the number be } x.$   
 Now, according to the question,  
 $x - \frac{3x}{4} = 163$   
 $\therefore x = 163 \times 4 = 652$

22. (e)  $\text{Required Compound Interest} = \text{Rs } 35000$   
 $\left[\left(1 + \frac{8}{100}\right)^2 - 1\right] \times \frac{108 \times 108 - 10000}{10000} = 35000$   
 $= \frac{35000 \times 1664}{10000} = \text{Rs } 5824$

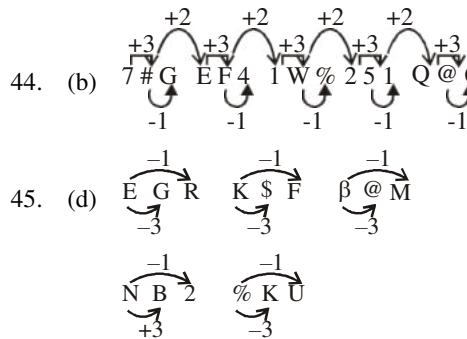
23. (a) Q Area of the square =  $2 \times 392 = 784$  sq. cm  
 $\therefore$  Length of the side of the square =  $\sqrt{784} = 28$  cm
24. (e) Maximum marks =  $\frac{100 \times 208}{40} = \text{Rs}520$
25. (c) Let the lowest number be x.  
 Now according to the question,  
 $x + (x+1) + (x+2) + (x+3) + (x+4) = 190$   
 $\Rightarrow 5x + 10 = 190$   
 $\Rightarrow x = \frac{190-10}{5} = \frac{180}{5} = 36$   
 $\therefore$  Required sum =  $36 + 40 = 76$
26. (d)  $1 \times 7 = 7$   
 $7 \times 7 = 49$   
 $49 \times 7 = 343$   
 $343 \times 7 = 2401$
27. (d)  $13 + 2^2 + 3 = 20$   
 $20 + 4^2 + 3 = 39$   
 $39 + 6^2 + 3 = 78$   
 $78 + 8^2 + 3 = 145$   
 $145 + 10^2 + 3 = 248$
28. (a)  $12 \times 2 + 11 = 35$   
 $35 \times 2 + 11 = 81$   
 $81 \times 2 + 11 = 173$   
 $173 \times 2 + 11 = 357$   
 $357 \times 2 + 11 = 725$
29. (e)  $3 + 97 = 100$   
 $100 + 197 = 297$   
 $297 + 297 = 594$   
 $597 + 397 = 991$   
 $991 + 497 = 1488$
30. (c)  $112 + 7 \times 1 = 119$   
 $119 + 7 \times 3 = 140$   
 $140 + 7 \times 5 = 175$   
 $175 + 7 \times 7 = 224$   
 $224 + 7 \times 9 = 287$
31. (e) Number of L type products sold by  
 Store F = 48  
 Store E = 40  
 Required percentage =  $\frac{48}{40} \times 100 = 120$
32. (e) Required ratio =  $(61 + 54) : (54 + 48) = 115 : 102$
33. (b) Average price =  $\frac{(16+15+14.5+15.6+18.2+14.9) \times 10^3}{6}$   
 $= \frac{94.2}{6} \times 10^3 = \text{Rs}15700$
34. (a) Required difference = Rs  $(60 \times 75 - 44 \times 15) \times 10^3$   
 $= (45000 - 660) \times 10^3 = \text{Rs} 38.4 \text{ lakhs}$

35. (d) Required total amount earned by selling both products M and O by store C = Rs  $(57 \times 5.6 + 48 \times 50) \times 10^3$   
 $= (319.2 + 2400) \times 10^3 = \text{Rs} 27.192 \text{ lakhs}$

(36-40) :



37. (c) Only two persons H and E are sitting.
38. (d)  $\begin{matrix} D & A & C & F & B \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ F & EH & BGD & AEHC \end{matrix}$
39. (d) All other are sitting at consecutive positions.
41. (b) If all the symbols and numbers are dropped, the new arrangement is P G R E F K U W H N I B Q Y M V D
42. (c) Only two  $\$ \quad 4 \quad F \quad \beta \quad 8 \quad V$
43. (c) Required position is =  $(7 + 12)$ th  
 $= 19$ th from the right end in the given arrangement.  
 Element at 19th from the right end = U



(46-50) :

- A # B  $\rightarrow$  A < B  
 A @ B  $\rightarrow$  A > B  
 A % B  $\rightarrow$  A = B  
 A \$ B  $\rightarrow$  A  $\geq$  B  
 A @ B  $\rightarrow$  A  $\leq$  B
46. (d) Z # F, R @ F, D @ R  
 Z < F, R  $\leq$  F, D > R  
**I.** Z < R  
**II.** D > Z  
 Combining the given expressions,  
 D > R  $\geq$  F > Z  
 comparison is not possible  
 So, neither I nor II is true.
47. (b) R @ D, D @ W, B @ W  
 R  $\leq$  D, D > W, B  $\leq$  W  
**I.** W > R,  
**II.** B < D

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Combining given expressions,

$$R \leq D > W \geq B$$

can't compare R and W  
Thus, I doesn't follow.

Again,  $R \leq D > W \geq B$   
combining

$$R \leq D > B$$

Thus,  $B < D$  and II follows.

48. (b)  $M \odot R$ ,  $R \% D$ ,  $D @ N$   
 $M > R$ ,  $R = D$ ,  $D \leq N$

I  $M > N$

II  $N \leq R$

Combining all the given expressions,

$$M > R = D \leq N$$

combining

$$M > R \leq N$$

comparison is not possible

Thus only II follows.

49. (e)  $H \$ V$ ,  $V \% M$ ,  $K \odot M$   
 $H \geq V$ ,  $V = M$ ,  $K > M$

I  $K > V$

II  $M \leq H$

Combining all the given expressions,

$$H \geq V = M < K$$

E---F  
combining

$$H \geq V < K$$

Thus, I follow.

Again,  $H \geq V = M < K$   
E---F  
combining

$$H \geq M < K$$

Thus, II follows

50. (d)  $K \# T$ ,  $T \$ B$ ,  $B @ F$   
 $K < T$ ,  $T \geq B$ ,  $B \leq F$

I  $F \geq T$

II  $K < B$

Combining all the given expressions,

$$K < T \geq B \leq F$$

E-----F

can't compare T and F

Again,  $K < T \geq B \leq F$   
E-----F

can't compare K and B

Therefore, neither I nor II follows.

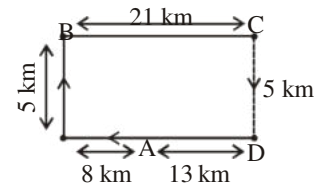
51. (e)

| Date      | Day       | Exam      | Time Duration |
|-----------|-----------|-----------|---------------|
| 2nd March | Wednesday | History   | 60 mins       |
| 3rd March | Thursday  | Maths     | 50 mins       |
| 4th March | Friday    | English   | 90 mins       |
| 5th March | Saturday  | Hindi     | 100 mins      |
| 6th March | Sunday    | Off       | off           |
| 7th March | Monday    | Economics | 75 mins       |
| 8th March | Tuesday   | Science   | 40 mins       |

- (56-60) :

| Days      | Lectures          |
|-----------|-------------------|
| Monday    | Group Discussion  |
| Tuesday   | —                 |
| Wednesday | Quality Circles   |
| Thursday  | Leadership        |
| Friday    | Decision Making   |
| Saturday  | Assessment Centre |
| Sunday    | Motivation        |

56. (e) Group Discussion and Motivation were organised on first and last days.  
57. (c) Three lectures were organised between Motivation and Quality Centre.  
58. (e) The lecture on Leadership will be organised on Thursday.  
59. (c) Tuesday is the only day there can be holiday.  
60. (c) All the statements are required.  
65. (d)



- (66-70) :

|               |                 |
|---------------|-----------------|
| hospital - ni | is - to         |
| far - ba      | from - ga       |
| house - di    | come - mo       |
| late - fa     | the bus - ru zi |

66. (a) 67. (b) 68. (a) 69. (d) 70. (c)

# SBI Clerk Solved Paper-2015

Held on 24-01-2015

(Based on Memory)

Time : 120 minutes

Max. Marks : 200

## General Awareness

- Prime Minister Narendra Modi recently inaugurated newly-built Parliament House of which country  
(a) Afganistan (b) Nepal  
(c) Bhutan (d) Sri Lanka  
(e) Burma
- Which of the following is India's first indigenously designed and built worship that was decommissioned recently?  
(a) INS Gomati (b) INS Ganga  
(c) INS Godavari (d) INS Yamuna  
(e) None of these
- Which country will host the 12th South Asian Games in 2016?  
(a) Bangladesh (b) India  
(c) Hongkong (d) Sri Lanka  
(e) Japan
- Sun temple is situated at which of the following places?  
(a) Haridwar (b) Varansi  
(c) Kanyakumari (d) Konark  
(e) Mathura
- India's first satellite launching station is located at?  
(a) Thumba (b) Ahmedabad  
(c) Chennai (d) Sriharikota  
(e) Mumbai
- Which of the following is 'country of copper'?  
(a) Zambia (b) Nigeria  
(c) Spain (d) Portugal  
(e) South Africa
- Which is the second largest planet in the solar system?  
(a) Venus (b) Jupiter  
(c) Mars (d) Saturn  
(e) Pluto
- Great Victoria desert is located in  
(a) Canada (b) West Africa  
(c) Australia (d) North America  
(e) South Africa
- When a body is taken from the Earth to the Moon?  
(a) Its weight increases  
(b) Its weight decrease  
(c) No change in weight  
(d) It becomes completely weightless  
(e) None of these
- Which of the following regions has smallest height (km) above Earth?  
(a) Stratosphere (b) Mesosphere  
(c) Thermosphere (d) Troposphere  
(e) Aerosphere
- Ozone holes are more pronounced at \_\_\_\_\_  
(a) Equator (b) Tropic of cancer  
(c) Tropic capricorn (d) poles  
(e) None of these
- Who was called a 'Man of Destiny'?  
(a) Napoleon (b) Hitler  
(c) Mahatma Gandhi (d) Sardar Patel  
(e) None of these
- Who was the first women Governor in India?  
(a) Dr. Annie Besant (b) Sarojini Naidu  
(c) Vijaylakshmi Pandit (d) Durga Banerjee  
(e) None of these
- 'Threat of global warming' is increasing due to increasing concentration of  
(a) Ozone (b) Carbon dioxide  
(c) Nitrous oxide (d) Sulphur dioxide  
(e) Nitrogen
- Which of the following is dwarf plant?  
(a) Mercury (b) Pluto  
(c) Mars (d) Uranus  
(e) Earth
- 'Basel-III reforms' are related to which of the following?  
(a) Environment  
(b) Sustainable Development  
(c) Disaster management  
(d) Banking  
(e) None of these
- Who among the following Indian personalities is the Co-author of the recently released book 'The Great India diet'?  
(a) Shilpa Shetty (b) Daboo Malik  
(c) Mahesh Bhat (d) Amitabh Bachan  
(e) None of these
- With which of the following has MTS India merged?  
(a) Reliance Communication  
(b) Airtel  
(c) Vodafone India  
(d) Idia  
(e) None of these
- Name the author of book titled, "Interlinking of Indian Rivers".  
(a) Pavan Chaudhary (b) Radha Kant Bharati  
(c) A B Pandya (d) R D Pradhan  
(e) None of these
- Iripitakas are sacred books of  
(a) Buddhists (b) Hindus  
(c) Jains (d) Parsi  
(e) Islam

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21. Which of the following is not emitted by radio active substance?
  - (a) Electrons
  - (b) Electromagnetic radiations
  - (c) Alpha particles
  - (d) Neutrons
  - (e) None of these
22. Ordinary table salt is Sodium Chloride. What is baking soda?
  - (a) Potassium Chloride
  - (b) Sodium Hydroxide
  - (c) Sodium Bicarbonate
  - (d) Potassium Hydroxide
  - (e) None of these
23. Ozone hole refers to
  - (a) hole in ozone layer
  - (b) decrease in ozone layer in troposphere
  - (c) decrease in thickness of ozone layer in stratosphere
  - (d) increase in thickness of ozone layers in troposphere
  - (e) None of these
24. Pulses are a good source of
  - (a) carbohydrates
  - (b) fats
  - (c) proteins
  - (d) vitamins
  - (e) None of these
25. Oxygen in our blood is transported by a protein called
  - (a) haemoglobin
  - (b) Keratin
  - (c) collagen
  - (d) Myoglobin
  - (e) None of these
26. The ratio of width to length of our National Flag is
  - (a) 3 : 5
  - (b) 2 : 3
  - (c) 2 : 4
  - (d) 3 : 4
  - (e) 3 : 2
27. For which of the following disciplines in Nobel prize awarded?
  - (a) Physics and Chemistry
  - (b) Physiology or Medicine
  - (c) Literature, and Economics
  - (d) Peace
  - (e) All of the above
28. Exposure to sunlight helps a person improve his health because
  - (a) the infrared light kills bacteria in the body
  - (b) resistance power increases
  - (c) the pigment cells in the skin get stimulated and produce a healthy tan
  - (d) the ultraviolet rays convert skin oil into vitamin D.
  - (e) None of these
29. Filariasis is caused by
  - (a) Bacteria
  - (b) Mosquito
  - (c) Protozoa
  - (d) Virus
  - (e) None of these
30. Ecology deals with
  - (a) Birds
  - (b) Cell formation
  - (c) Relation between organism and their environment
  - (d) Tissue
  - (e) None of these
31. Headquarters of UNO are situated at
  - (a) New York, USA
  - (b) Hague (Netherlands)
  - (c) Geneva
  - (d) Paris
  - (e) China
32. Fathometer is used to measure
  - (a) Earthquakes
  - (b) Rainfall
  - (c) Ocean depth
  - (d) Sound intensity
  - (e) Intensity of light
33. Which scientist discovered radioactive element radium?
  - (a) Isaac Newton
  - (b) Albert Einstein
  - (c) Benyamen Franklen
  - (d) Marie Curie
  - (e) None of these
34. ICICI is the name of a
  - (a) Chemical industry
  - (b) Bureau
  - (c) Corporation
  - (d) Financial institution
  - (e) None of these
35. 'World Chronic obstructive pulmonary Disease day for the year 2015 was observed on which date?
  - (a) 16 November
  - (b) 17 November
  - (c) 18 November
  - (d) 19 November
  - (e) None of these
36. The famous Dilwara Temples are situated in
  - (a) Uttar Pradesh
  - (b) Rajasthan
  - (c) Maharashtra
  - (d) Madhya Pradesh
  - (e) Karnatka
37. The government has decided to increase the foreign direct investment (FDI) limit in private banks from the existing 74% to
  - (a) 90%
  - (b) 100%
  - (c) 95%
  - (d) 80%
  - (e) None of these
38. Who is called as the father of geometry?
  - (a) Aristotle
  - (b) Euclid
  - (c) Pythagoras
  - (d) Kepler
  - (e) Newton
39. Who was known as from man of India?
  - (a) Govind Ballabh pant
  - (b) Jawarlal Neharu
  - (c) Subhash Chandra Bose
  - (d) Sardar Vallabhbai Patel
  - (e) Mahatma Gandhi
40. Dr. M. S. Swaminathan is associated with
  - (a) Agriculture
  - (b) Medicine
  - (c) Astrophysics
  - (d) Physics
  - (e) None of these

### General English

**DIRECTIONS (Qs. 41-50) :** Read the following passage carefully and answer the questions given below. Certain words are printed in bold to help you to locate them while answering some of the questions.

Comfort is now one of the causes of its own spread. It has now become a physical habit, a fashion, an ideal to be pursued for its own sake. The more comfort is brought into the world, the more it is likely to be valued. To those who have known comfort, discomfort is a real torture. The fashion which now **decrees** the worship of comfort is quite as imperious as any other fashion. Moreover, enormous material interests are bound up with the supply of the means of comfort. The manufacturers of furniture, of heating apparatus, of plumbing fixtures cannot afford to let the love of comfort die. In modern advertisements they have found a means for compelling it to live and grow. A man of means today, who builds a house, is in general concerned primarily with the comfort of his future residence. He will spend a great deal of money on bathrooms, heating apparatus, padded furnishings, and having spent he will regard his house as perfect. His counter part in an earlier age would have been primarily



concerned with the impressiveness and magnificence of his dwelling with beauty, in a word, rather than comfort. The money our contemporary would spend on baths and central heating would have been spent on marble staircases, frescoes, pictures and statues. I am inclined to think that our present passion for comfort is a little exaggerated. Though I personally enjoy comfort, I have lived most happily in houses **devoid of** everything that Anglo-Saxons deem **indispensable**. Orientals and even South Europeans who know not comfort and live very much as our ancestors did centuries ago seem to go on very well without our elaborate apparatus and padded luxuries. However, comfort for me has a justification; it facilitates mental life. Discomfort handicaps thought; it is difficult to use the mind when the body is cold and aching.

41. Choose the word that is **SIMILAR** in meaning to the phrase **devoid of** as used in the passage.
  - (a) available (b) lacking
  - (c) empty (d) false
  - (e) deficient
42. How do people manage to keep the love of comfort a live?
  - (a) By pumping in more comfort goods in the market
  - (b) By sacrificing high profit on comfort goods
  - (c) By targeting youths in the sales campaign
  - (d) By appealing to the emotionality of people
  - (e) None of these
43. What is the author's prediction about comfort?
  - (a) The value of comfort will increase
  - (b) People will value more spirituality thus reducing the value of comfort.
  - (c) People will desire simple lifestyle
  - (d) The advertisements will play down the comfort aspect of goods
  - (e) None of these
44. What was the characteristic of affluent men of an earlier age?
  - (a) He used to put higher premium on comfort.
  - (b) He was relying much on advertisements.
  - (c) He believed more in simple and cheaper things.
  - (d) He was more qualitative in his emphasis rather than being quantitative.
  - (e) His emphasis was on beauty.
45. What change according to the author has taken place in the attitude towards comfort?
  - (a) It is taken for granted in the modern way of living.
  - (b) It has become now an ideal to be pursued for its own sake.
  - (c) It is now believed that discomfort handicaps thought.
  - (d) It is thought that comfort helps body and mind to function effectively.
  - (e) None of these
46. Choose the word which is **SIMILAR** in meaning to the word '**decree**' as used in the passage.
  - (a) order (b) spread
  - (c) project (d) attract
  - (e) exhibit
47. Why does the author value comfort?
  - (a) It helps to project one's image.
  - (b) It helps to protect your values.
  - (c) It facilitates mental life.
  - (d) It encourages a blend of materialistic and spiritual thinking.
  - (e) None of these
48. Why would manufacturers of various devices not permit comfort to die?
  - (a) They want to manufacture more and more comfort goods.
  - (b) Manufacturers are mainly interested in creating new things.
  - (c) Manufacturers' emphasis is on producing beautiful things.
  - (d) Their prosperity is closely linked with the people's desire for comfort.
  - (e) None of these
49. Choose the word which is **MOST OPPOSITE** in meaning of the word '**indispensable**' as used in the passage.
  - (a) unattractive (b) avoidable
  - (c) favourable (d) unelegant
  - (e) comfortable
50. Which of the following statements is **NOT TRUE** in the context of the passage?
  - (a) Discomfort is not liked by those who live in comfort.
  - (b) The affluent man of an earlier age was interested more in beauty than in comfort.
  - (c) Discomfort handicaps thought.
  - (d) Orientals and South Europeans love comfort immensely.
  - (e) The author of the passage enjoys comfort.

**DIRECTIONS (Qs. 51-60):** In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The weaker sections of the rural population are mostly from the socially and economically backward and 51 sections of the village community. Because of their 52 and financial difficulty, they are not readily 53 to change their work habits and adopt modern technology. 54 sure about the traditional methods, they are 55 to take to 56 equipment and techniques which require some time to get accustomed for 57 work. After holding a number of group meetings with rural people 58 to different vocations and spread over the entire country, we can safely say that persons in the villages are not 59 for training to improve upon their traditional and hereditary 60 of working.

51. (a) depressed (b) different  
(c) rich (d) privileged  
(e) forward
52. (a) ability (b) dependence  
(c) illiteracy (d) number  
(e) majority
53. (a) discarding (b) feeling  
(c) bending (d) undertaking  
(e) willing
54. (a) Making (b) Having  
(c) Quite (d) Being  
(e) Not

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55. (a) forced (b) reluctant  
(c) bound (d) prepared  
(e) curious
56. (a) farming (b) traditional  
(c) improved (d) powerful  
(e) old
57. (a) routine (b) monotonous  
(c) excessive (d) wasteful  
(e) effective
58. (a) accruing (b) helping  
(c) enabling (d) belonging  
(e) referring
59. (a) eager (b) capable  
(c) indifferent (d) antagonistic  
(e) unwilling
60. (a) theories (b) techniques  
(c) desires (d) hours  
(e) policies

**DIRECTIONS (Qs. 61 - 65) :** Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer, if there is no error, the answer is (e). (Ignore errors of punctuation, if any).

61. You maynot know it (a)/ but this engine is (b)/ claimed to have twice (c)/ as powerful as the previous one. (d)/ No error (e)
62. Nothing ever becomes real (a)/ till it is experienced. (b)/ Even proverb is no proverb to you (c)/ till your life has illustrated with it, (d)/ No error (e)
63. I remember my childhood days (a)/ when I was used to go (b)/ to the farm with my father (c)/ and help him in his work (d) No error (e).
64. I missed the last train (a)/ which I usually catch (b)/ and have to stay at the station (c)/ on my way back home yesterday. (d) No error (e).
65. Sureshbabu who is living (a)/ in this own since 1955 (b)/ is a well-known scholar of history (c)/ and a distinguished musician. (d)/ No error (e).

**DIRECTIONS (Qs. 66-70) :** In the following questions sentences are given with blanks to be filled with an appropriate word. Choose the best alternative among them.

66. Though one eye is kept firmly on the\_\_\_\_\_. The company now also promotes\_\_\_\_\_contemporary art  
(a) present, experimental (b) future, popular  
(c) present, popular (d) market, popular  
(e) None of these
67. The manners and\_\_\_\_\_of the nouveau riche is a recurrent\_\_\_\_\_in the literature  
(a) style, motif (b) morals , story  
(c) wealth, theme (d) morals, theme  
(e) None of these
68. It not look like a great deal today, but back then it was a coup: no man before\_\_\_\_\_to import tea directly into Ireland.  
(a) may, has dared (b) may, had dared  
(c) might, have dared (d) might, have ever dared  
(e) None of these

69. The head \_\_\_\_\_was annoyed to see a \_\_\_\_\_in the soup.  
(a) chief, house fly (b) chef, housefly  
(c) chief, house-fly (d) chef, house fly  
(e) None of these
70. When you want to digitalise a city\_\_\_\_\_with millions, you don't bet\_\_\_\_\_the odds.  
(a) proceeding, into (b) teeming, against  
(c) undergoing, adhere (d) dangling, for  
(e) None of these

**DIRECTIONS (Qs. 71-75):** Rearrange the following five sentences into a meaningful paragraph and answer the questions given below:

- (A) However, with innovation coming into play unit-linked/ market-linked products have also found a place in insurance business after privatisation.
- (B) It is also worth mentioning here that world over unitlinked products constitute quite a substantial chunk of the total portfolio of insurance companies.
- (C) There was a time when only traditional insurance products used to dominate the arena.
- (D) The emergence of these products of various insurance companies combines the characteristics of both endowment insurance policies and mutual funds.
- (E) The insurance industry in India is evolving and assuming different proportion since it was privatised.
71. Which of the following will be the **Fourth** sentence in the paragraph?  
(a) A (b) B  
(c) C (d) D  
(e) E
72. Which of the following will be the **Second** sentence in the paragraph?  
(a) A (b) B  
(c) C (d) D  
(e) E
73. Which of the following will be the **Last** sentence in the paragraph?  
(a) A (b) B  
(c) C (d) D  
(e) E
74. Which of the following will be the **First** sentence in the paragraph?  
(a) A (b) B  
(c) C (d) D  
(e) E
75. Which of the following will be the **Third** sentence in the paragraph?  
(a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Q. 76 – 80) :** Which of the phrases (a), (b), (c) and (d) given below each sentence should replace the phrases printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 5) as the answer

76. Meena loved to shop and goes **out with** her friends whenever she got time.  
 (a) went outside along (b) went out with  
 (c) goes for outing to (d) go outing and  
 (e) No corrections required
77. Manoj was **many better** at sports than Anurag.  
 (a) much good than (b) many good to  
 (c) much better at (d) much better than  
 (e) No corrections required
78. It was very dark and Trisha was **too scary to** go home alone.  
 (a) too scaring (b) to scary top  
 (c) to scare too (d) too scared to  
 (e) No corrections required
79. Many people **not like being** interrupted when they are busy working.  
 (a) do not like being (b) do not like  
 (c) not liking when (d) no like being  
 (e) No corrections required
80. The crowd loved her performance and gave her a **stand ovation** as she left the stage.  
 (a) stand ovate (b) stood ovation  
 (c) stand the ovation (d) standing ovation  
 (e) No correction required

### Quantitative Aptitude

**DIRECTIONS (Qs. 81-90):** What should come in place of question mark (?) in the following questions.

81.  $3251 + 587 + 369 - ? = 3007$   
 (a) 1250 (b) 1300  
 (c) 1376 (d) 1200  
 (e) None of these
82.  $(800 \div 64) \times (1296 \div 36) = ?$   
 (a) 420 (b) 460  
 (c) 500 (d) 540  
 (e) None of these
83.  $107 \times 107 + 93 \times 93 = ?$   
 (a) 19578 (b) 19418  
 (c) 20098 (d) 21908  
 (e) None of these
84.  $34.667 - 15.597 - 8.491 - 0.548 = ?$   
 (a) 14.403 (b) 10.031  
 (c) 18.301 (d) 21.043  
 (e) None of these
85.  $[(140)^2 \div 70 \times 16] \div 8 = 14 \times ?$   
 (a) 38 (b) 22  
 (c) 55 (d) 40  
 (e) None of these
86.  $456 + 24 \times 0.75 - 12 = ?$   
 (a) 462 (b) 672  
 (c) 348 (d) 624  
 (e) None of these

87.  $\sqrt{\sqrt{17956} + \sqrt{24025}} = ?$   
 (a) 256 (b) 289  
 (c) 155 (d) 19  
 (e) None of these
88.  $5\frac{1}{4} + 6\frac{2}{3} + 7\frac{1}{6} = ?$   
 (a) 19.5 (b)  $19\frac{11}{12}$   
 (c)  $19\frac{1}{12}$  (d) 19  
 (e) None of these
89. 40% of 250 = 50% of ?  
 (a) 200 (b) 100  
 (c) 150 (d) 400  
 (e) None of these
90. ?% of 658 + 40% of 845 = 568.3  
 (a) 46 (b) 42  
 (c) 38 (d) 35  
 (e) None of these

**DIRECTIONS (Qs. 91-95):** What should come in place of the question mark (?) in the following number series?

91. 9 19 40 83 ? 345 696  
 (a) 162 (b) 170  
 (c) 175 (d) 166  
 (e) None of these
92. 980 484 236 112 50 ?  
 (a) 25 (b) 17  
 (c) 21 (d) 29  
 (e) None of these
93. 89 20 63 256 1285 ?  
 (a) 6430 (b) 7450  
 (c) 7716 (d) 7746  
 (e) None of these
94. 1015 508 255 129 66.5 ? 20.875  
 (a) 34.50 (b) 35  
 (c) 35.30 (d) 35.75  
 (e) None of these
95. 12 12 18 36 90 270 ?  
 (a) 945 (b) 810  
 (c) 1080 (d) 1215  
 (e) None of these

**DIRECTIONS (Qs. 96-100):** Study the following table carefully and answer the questions given below it.

| Shows(Number in hundreds) |       |       |       |                 |         |
|---------------------------|-------|-------|-------|-----------------|---------|
| Cities                    | Dance | Music | Drama | Stand-up Comedy | Mimicry |
| M                         | 15    | 21    | 24    | 0.8             | 0.9     |
| N                         | 12.4  | 13    | 26    | 2               | 0.5     |
| O                         | 5.7   | 8     | 12    | 0.3             | 0.2     |
| P                         | 11.3  | 6     | 18    | 1               | 1.5     |
| Q                         | 17    | 12.4  | 11    | 3               | 0.4     |
| R                         | 14    | 10.5  | 9.8   | 0.7             | 0.1     |

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96. The mimicry shows held in city M are what percent of the drama shows held in city O ?  
 (a) 7 (b) 8.5  
 (c) 6.5 (d) 8  
 (e) None of these
97. What is the average number of entertainment shows held in city P ?  
 (a) 756 (b) 678  
 (c) 786 (d) 698  
 (e) None of these
98. If the number of music shows in city N and Q is increased by 5%, what will be the total number of music shows in both the cities together ?  
 (a) 2,602 (b) 2,667  
 (c) 2,540 (d) 2,667  
 (e) None of these.
99. What is the ratio of the number of dance shows held in city N to the number of drama shows held in city R ?  
 (a) 49:62 (b) 49:51  
 (c) 62:45 (d) 62:49  
 (e) None of these
100. What is the total number of stand-up comedy shows held in all the cities together ?  
 (a) 820 (b) 740  
 (c) 780 (d) 810  
 (e) None of these.
101. Which one of the following is a prime number ?  
 (a) 161 (b) 171  
 (c) 173 (d) 221  
 (e) None of these
102. When a ball bounces, it rises to  $\frac{2}{3}$  of the height from which it fell. If the ball is dropped from a height of 36 m, how high will it rise at the third bounce?  
 (a)  $10\frac{1}{3}$  m (b)  $10\frac{2}{3}$  m  
 (c)  $12\frac{1}{3}$  m (d)  $12\frac{2}{3}$  m  
 (e) None of these
103. LCM of two numbers is 16 times their HCF. The sum of LCM and HCF is 850. If one number is 50, then what is the other number ?  
 (a) 800 (b) 1200  
 (c) 1600 (d) 2400  
 (e) None of these
104. The sum of two numbers is 232 and their HCF is 29. What is the number of such pairs of numbers satisfying the above condition?  
 (a) One (b) Two  
 (c) Four (d) Five  
 (e) None of these
105. A man loses 20% of his money. After spending 25% of the remaining, he has ₹480 left. What is the amount of money he originally had?  
 (a) ₹600 (b) ₹720  
 (c) ₹800 (d) ₹840  
 (e) None of these
106. A person sold an article for ₹3600 and got a profit of 20%. Had he sold the article for ₹3150, how much profit would he have got?  
 (a) 4% (b) 5%  
 (c) 6% (d) 10%  
 (e) None of these
107. A water pipe is cut into two pieces. The longer piece is 70% of the length of the pipe. By how much percentage is the longer piece longer than the shorter piece?  
 (a) 140% (b)  $\frac{400}{3}\%$   
 (c) 40% (d) None of these  
 (e) None of these
108. Age of X is six times that of Y. After 4 years, X is four times elder to Y. What is the present age of Y ?  
 (a) 4 years (b) 5 years  
 (c) 6 years (d) 7 years  
 (e) None of these
109. In a certain school, the ratio of boys to girls is 7 : 5. If there are 2400 students in the school, then how many girls are there ?  
 (a) 500 (b) 700  
 (c) 800 (d) 1000  
 (e) None of these
110. A person invested part of ₹45000 at 4% and the rest at 6%. If his annual income from both are equal, then what is the average rate of interest?  
 (a) 4.6% (b) 4.8%  
 (c) 5.0% (d) 5.2%  
 (e) None of these
111. In an examination, 40% of the candidates wrote their answers in Hindi and the others in English. The average marks of the candidates written in Hindi is 74 and the average marks of the candidates written in English is 77. What is the average marks of all the candidates ?  
 (a) 75.5 (b) 75.8  
 (c) 76.0 (d) 76.8  
 (e) None of these
112. If the rate of interest is 10% per annum and is compound half-yearly, then the principle of ₹400 in  $\frac{3}{2}$  years will amount to  
 (a) ₹463.00 (b) ₹463.05  
 (c) ₹463.15 (d) ₹463.20  
 (e) None of these
113. The simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on ₹4000 for 2 years at 10% per annum. What is the sum placed on simple interest?  
 (a) ₹1550 (b) ₹1650  
 (c) ₹1750 (d) ₹2000  
 (e) None of these
114. A man buys 4 tables and 5 chairs for ₹1000. If he sells the tables at 10% profit and chairs 20% profit, he earns a profit of ₹120. What is the cost of one table?  
 (a) ₹200 (b) ₹220  
 (c) ₹240 (d) ₹260  
 (e) None of these

115. A refrigerator and a camera were sold for ₹ 12000 each. The refrigerator was sold at a loss of 20% of the cost and the camera at a gain of 20% of the cost. The entire transaction results in which one of the following?
- (a) No loss or gain (b) Loss of ₹ 1000  
(c) Gain of ₹ 1000 (d) Loss of ₹ 2000  
(e) None of these
116. Two cars A and B start simultaneously from a certain place at the speed of 30 km/h and 45 km/hr, respectively. The car B reaches the destination 2 h earlier than A. What is the distance between the starting point and destination?
- (a) 90km (b) 180km  
(c) 270km (d) 360km  
(e) None of these
117. A train running at the speed of 72 km/h goes past a pole in 15 s. What is the length of the train?
- (a) 150m (b) 200m  
(c) 300m (d) 350m  
(e) None of these
118. A person walks a distance in 114 days, when he rests 9h a day. How long will he take to walk twice the distance, if he walks twice as fast and rests twice as long each day as before?
- (a) 57 days (b) 228 days  
(c) 285 days (d) 324 days  
(e) None of these
119. The sides of a triangular field are 41 m, 40 m and 9 m. The number of rose beds that can be prepared in the field if each rose bed, on an average, needs 900 square cm space, is
- (a) 2000 (b) 1800  
(c) 900 (d) 800  
(e) None of these
120. The ratio of the outer and inner perimeters of a circular path is 23 : 22. If the path is 5 m wide, the diameter of the inner circle is
- (a) 55m (b) 110m  
(c) 220m (d) 230m  
(e) None of these

## Reasoning Ability

121. If each of the digits in the number 92581473 are arranged in ascending order, what will be the difference between the digits which are fourth from the right and third from the left in the new arrangement?
- (a) One (b) Two  
(c) Three (d) Four  
(e) None
122. If 'R' denotes '÷', 'P' denotes 'X', 'W' denotes '+' and 'V' denotes '-' then  $14W16R4V3P5=?$
- (a) 15 (b) 4  
(c) 6 (d) 3  
(e) None of these
123. How many such pair of letters are there in the word WONDERS, each of which has as many letters between them in the word (in both forward and backward direction) as they have between them in the English alphabetical order?

- (a) One (b) Two  
(c) Three (d) More than three  
(e) None of these
124. Arrange the words given below in a meaning sequence.
1. Key 2. Door  
3. Lock 4. Room  
5. Switch on
- (a) 5, 1, 2, 4, 3 (b) 4, 2, 1, 5, 3  
(c) 1, 3, 2, 4, 5 (d) 1, 2, 3, 5, 4  
(e) 5, 4, 3, 2, 1
125. If it is possible to form a word with the first, fourth, seventh and eleventh letters of the word 'SUPERFLUOUS', write the first letter of that word. Otherwise, X is the answer.
- (a) S (b) L  
(c) O (d) X  
(e) None of these

**DIRECTIONS (Qs. 126-130) :** Study the following arrangement carefully and answer the questions given below.

RD15E%K3J19P8#A2B\$KM6W@N4©T\*7FH

126. Which of the following is the third to the right of the twelfth from the left end?
- (a) J (b) A  
(c) B (d) @  
(e) None of these
127. Which of the following is the sixth to the right of the eighteenth from the right end?
- (a) P (b) 3  
(c) W (d) M  
(e) None of these
128. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a symbol?
- (a) One (b) Two  
(c) Three (d) Four  
(e) None of these
129. How many such consonants are there in the above arrangement, each of which is immediately preceded by a symbol and immediately followed by a number?
- (a) One (b) Two  
(c) Three (d) Four  
(e) None of these
130. Which of the following is exactly in the middle between the tenth from the left end and the eight from the right end?
- (a) \$ (b) #  
(c) B (d) 7  
(e) None of these

**DIRECTIONS (Qs. 131 – 135) :** In each of the questions below are given four statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**131. Statements :**

- All silver are metals.  
All metals are steel.



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Some steel are stones.  
All stones are stands.

**Conclusions :**

- I** Some stands are metals.  
**II** Some stones are silver.  
**III** Some stands are steel.  
**IV** Some stones are steel.  
(a) Only III and IV follow (b) Only I follows  
(c) Only II follows (d) Only III follows  
(e) None of these

**132. Statements :**

All chairs are tables.  
All tables are songs.  
Some songs are rhythms.  
Some rhythms are pillows.

**Conclusions :**

- I** Some tables are chairs.  
**II** All tables are rhythms.  
**III** All chairs are songs.  
**IV** Some pillows are songs.  
(a) Only I and III follows (b) Only I and IV follows  
(c) Only I follows (d) Only II follows  
(e) None of these

**133. Statements :**

Some mobiles are pens.  
Some pens are covers.  
Some covers are plates.  
All plates are papers.

**Conclusions :**

- I** All mobiles are covers.  
**II** Some pens are papers.  
**III** All plates are pens.  
**IV** Some papers are mobiles.  
(a) Only I follows (b) Only II follows  
(c) Only I and IV follows (d) Only II and IV follows  
(e) None follows

**134. Statements :**

All shoes are tables.  
Some tables are lanes.  
All caps are lanes.  
Some lanes are rows.

**Conclusions :**

- I** Some tables are rows.  
**II** Some tables are shoes.  
**III** Some rows are caps.  
**IV** Some lanes are shoes.  
(a) Only I and II follow  
(b) Only II follows  
(c) Only III follows  
(d) Only either I or IV follows  
(e) None of these

**135. Statements :**

All brands are bottles.  
All bottles are machines.  
All machines are files.  
All files are roots.

**Conclusions :**

- I** Some files are machines.

- II** Some brands are roots.  
**III** Some machines are roots.  
**IV** All brands are files.  
(a) None follows  
(b) Only I follows  
(c) Only IV follows  
(d) Only II and III follows  
(e) Only I and IV follows

**DIRECTIONS (Qs. 136–140) :** Study the following information carefully and answer the questions given below :

A, B, D, M, P, Q, T, V and W are sitting around a circle facing the centre. D is third to the left of A, who is second to the left of W. B is second to the right of W and fourth to the left of M. V is fourth to the right of Q, who is not an immediate neighbour of A. T is fourth to the left of P.

136. Who is on the immediats left or D ?

- (a) P (b) V  
(c) B (d) M  
(e) Data inadequate

137. Who is second to the right of Q ?

- (a) B (b) P  
(c) D (d) Data inadequate  
(e) None of these

138. Who is third to the right of T ?

- (a) Q (b) P  
(c) V (d) B  
(e) None of these

139. In which of the following combinations is the first person sitting in between the second and the third persons?

- (a) DVM (b) BPD  
(c) WQB (d) TAW  
(e) AMV

140. Four of the following five are alike in certain way based on the above seating arrangements and so form a group. Which is the one that does not belong to that group ?

- (a) MD (b) QP  
(c) AV (d) QT  
(e) DB

**DIRECTIONS (Qs. 141-145) :** Study the following information carefully and answer the question given below.

K, L, M, P, Q, R, S and T are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of each of the four sides. The ones who sit at the four corners face outside while those who sit in the middle of the sides face the centre of the table. P sits third to the right of S. S faces the centre. Q sits third to the left of M. M does not sit in the middle of the sides. Only one person sits between Q and R. R is not an immediate neighbour of M. T faces the centre. K is not an immediate neighbour of R.

141. What is position of M with respect to L?

- (a) Third to the right  
(b) M and L sit diagonally opposite to each other  
(c) Second to the right  
(d) Second to the left  
(e) Fifth to the right

142. Who sits exactly between Q and R?  
 (a) T (b) P  
 (c) K (d) M  
 (e) S and K
143. Which of the following pairs represents the persons seated in middle of the sides who face each other?  
 (a) S, Q (b) K, L  
 (c) M, P (d) R, T  
 (e) T, Q
144. Who among the following sit between R and K when counted in anti-clockwise direction from K?  
 (a) No one sits between R and K as R and K are immediate neighbours of each other  
 (b) S, P and L  
 (c) P and Q  
 (d) L and R  
 (e) M, S and T
145. If K is made to face the opposite direction, who would sit to his immediate right?  
 (a) R (b) Q  
 (c) P (d) T  
 (e) S

**DIRECTIONS (Qs. 146 - 150) :** Study the information given below and answer the given questions:

7 people - A, B, C, D, E, F and G stay on a 7 floors building (No body stays on ground floor which is named 0 floor). They are professors of different subjects - Finance, English, Computer, Physics, Marketing, Accounts and Mathematics (but not necessarily in the same order).

The professor of Finance stays on either 2nd or 5th floor. There are three floors between the persons who teach English and Finance. And also there are 2 floors between the persons who teach English and Computers. Physics Lecturer stays immediately below the Marketing Lecturer. Accounts Lecturer stays below Mathematics Lecturer (not necessarily immediately below Mathematics Lecturer). Accounts lecturer does not stay on 1st or 2nd floor.

146. Which of the following subject's professor stays on 1st floor?  
 (a) Finance (b) Marketing  
 (c) Physics (d) English  
 (e) Data inadequate
147. How many floors are between Finance Lecturer and English Lecturer?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three
148. Which of the following combination of floor-lecturer is not correct?  
 (a) English-1 (b) Marketing-3  
 (c) Mathematics-7 (d) Computers-4  
 (e) Physics-6
149. Which of the following subject's lecturers stay between the lecturers of Accounts and Physics?  
 (a) Finance, Marketing  
 (b) Mathematics, Computers  
 (c) Computers

- (d) Finance, Computers, Marketing  
 (e) None of these

150. If Finance lecturer is related to English lecture and Mathematics lecturer is related to Marketing lecturer in a certain way based upon the given arrangement, then Accounts lecturer will be related to which of the following, following the same pattern?  
 (a) English (b) Physics  
 (c) Computers (d) Marketing  
 (e) None of these

**DIRECTIONS (Qs. 151-155):** Study the following information to answer the given questions:

In a certain code, 'she sat on chair' is written as 'ik ma ja de', 'he sat on table' is written as 'de da ik phi', 'chair is on cart' is written as 'ik pa ma ki', and 'he is looking smart' is written as 'jo va ki phi'.

151. What does 'de' mean in the given code language?  
 (a) on (b) cart  
 (c) sat (d) chair  
 (e) Can't be determined
152. What does 'da ik ja' stand for?  
 (a) cart chair table (b) she on chair  
 (c) is he table (d) she on table  
 (e) None of these
153. Which is the code for 'chair'?  
 (a) ma (b) ik  
 (c) pa (d) ja  
 (e) ki
154. 'she cart smart' is written as what in the code language?  
 (a) va pa ja (b) pa je ik  
 (c) ja jo pa (d) Either A or C  
 (e) Cannot be determined
155. Which of the following may represent 'table was on cart'?  
 (a) ik ki jo va (b) de phi da pa  
 (c) da pa je ik (d) ik pa su da  
 (e) ik da ma va

**DIRECTION (Qs. 156-160):** Relationship between different elements is shown in the statements. Find if the conclusions also follow or not.

156. **Statements :**  $P = Q \geq R = S \geq T$ ;  $V \leq W = T$ ;  $R > X$

**Conclusions:**

I.  $P > X$

II.  $Q \geq W$

- (a) only I follows (b) only II follows  
 (c) either I or II follows (d) neither I nor II follow  
 (e) both I and II follow

157. **Statements:**  $P = Q \geq R = S > T$ ;  $V \leq X \leq T$

**Conclusions:**

I.  $P > X$

II.  $\Pi \geq P$

- (a) only I follows (b) only II follows  
 (c) either I or II follows (d) neither I nor II follow  
 (e) both I and II follow

158. **Statements:**  $P = T \geq A < D > W$ ;  $W \leq X > L$ ;  $P < K = N$

**Conclusions:** I.  $D > L$

II.  $A \leq N$

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- (a) only I follows (b) only II follows  
(c) either I or II follows (d) neither I nor II follow  
(e) both I and II follow
159. **Statements:**  $A > L \geq J = I$ ;  $K < L \leq H$ ;  $G = H \leq B$  **Conclusions:**  
I.  $J \leq B$  II.  $J > B$   
(a) only I follows (b) only II follows  
(c) either I or II follows (d) Error! Not a valid embedded object. neither I nor II follow  
(e) both I and II follow
160. **Statements:**  $T > P \leq B = H$ ;  $J \leq P > M$ ;  $L < G = J$  **Conclusions:**  
I.  $T < J$  II.  $G \leq H$   
(a) only I follows (b) only II follows  
(c) either I or II follows (d) neither I nor II follow  
(e) both I and II follow
- Marketing Aptitude/  
Computer Knowledge
161. Which of the following is a part of Marketing Management?  
(a) Identification of Business opportunities  
(b) Understanding the customer needs  
(c) Producing according to customer needs  
(d) Delivering as per customer convenience  
(e) All of the above
162. Consumer buys \_\_\_\_\_.  
(a) Goods (b) Services  
(c) Both (a) and (b) (d) Neither (a) nor (b)  
(e) None of these
163. Which of the following is not correct with regard to marketing?  
(a) Marketing is management function  
(b) Marketing is a philosophy  
(c) Marketing is not related to business activity alone  
(d) Marketing means selling.  
(e) Objective of marketing is to achieve customer satisfaction.
164. Which of the following describes changes in individuals behaviour arising from experience?  
(a) Modeling (b) Motivation  
(c) Perception (d) Learning  
(e) None of these
165. If a company wants to reach masses of buyers that were geographically dispersed at a low cost per exposure, which promotional form company would choose?  
(a) Advertising (b) Personal selling  
(c) Public relations (d) Sales promotion  
(e) None of these
166. Anything can be offered to a market for attention, acquisition, use or consumption that might satisfy a want or need is called a(n).  
(a) Idea (b) Demand  
(c) Product (d) Service  
(e) None of these
167. \_\_\_\_\_ is the general term for buying and selling process that is supported by electronic means.  
(a) Internet commerce (b) Web commerce  
(c) Computer commerce (d) Electronic commerce  
(e) None of these
168. In terms of special product life cycles, a \_\_\_\_\_ is a basic and distinctive mode of expression.  
(a) Genre (b) Style  
(c) Fashion (d) Fad  
(e) None of these
169. The process of evaluating each market segment's attractiveness and selecting one or more segments to enter is called \_\_\_\_\_.  
(a) Mass Marketing (b) Market segmentation  
(c) Market targeting (d) Market positioning  
(e) None of these
170. Which of the following factors are the most popular bases for segmenting customer groups.  
(a) Geographic (b) Demographic  
(c) Psychographic (d) Behavioral  
(e) None of these
171. Which strategy calls for using the sales force and trade promotion to move the product through channels.  
(a) Push strategy (b) Pull strategy  
(c) Blocking strategy (d) Integrated strategy  
(e) None of these
172. What is 'Globalization'?  
(a) Opening the economy for world trade  
(b) Export and import trade  
(c) Foreign trade  
(d) Marketing foreign products  
(e) None of these
173. Web marketing involves \_\_\_\_\_.  
(a) Selling web cameras  
(b) Web advertisements  
(c) E-mail chatting  
(d) Browsing the web  
(e) Door-to-door canvassing
174. Marketing share means \_\_\_\_\_.  
(a) Paid up capital  
(b) Share held by employees  
(c) Share of business volume as compared to other companies  
(d) Share price of the company quoted in the market  
(e) Sensex
175. "USP" in marketing means  
(a) Unique selling practices  
(b) Uniform selling practices  
(c) United sales persons  
(d) Unique selling proposition  
(e) Useful sales person
176. Online marketing is useful for marketing of  
(a) Saving accounts (b) Credit card  
(c) Home loans (d) NRI deposits  
(e) Business accounts
177. Digital marketing is similar to \_\_\_\_\_.  
(a) Online marketing (b) Cold calling  
(c) Web designing (d) Market for cost  
(e) Outdoor marketing

178. Target group means  
 (a) All purchasers (b) All sales persons  
 (c) Targeted purchasers (d) All consumers  
 (e) Delivery persons
179. Referral means \_\_\_\_\_ -  
 (a) Sales person  
 (b) All customers  
 (c) Lead provided by operation staff  
 (d) Calling the existing purchasers  
 (e) All purchasers
180. Market segmentation means  
 (a) Segmentation of sales team  
 (b) Allocation of territory  
 (c) Sales arrangement  
 (d) Segmentation of target group according to their needs  
 (e) All hospitals
181. A person who uses his expertise to gain access to other computers to get information illegally or do damages is  
 (a) Hacker (b) Analyst  
 (c) Instant messenger (d) Programmer  
 (e) Spammer
182. A device that connects to a network without the use of cables is said to be \_\_\_\_\_  
 (a) distributed (b) free  
 (c) centralized (d) open source  
 (e) None of these
183. The most common type of storage devices are  
 (a) Persistence (b) Optical  
 (c) Magnetic (d) flash  
 (e) None of these
184. Compilers used the \_\_\_\_\_ number system to store data and perform calculations  
 (a) binary (b) octal  
 (c) decimal (d) hexadecimal  
 (e) None of these
185. DVD is an example of  
 (a) Hard disk  
 (b) optical disk  
 (c) Output device  
 (d) Solid-state storage devices  
 (e) None of these
186. The \_\_\_\_\_ enables you to simultaneously keep multiple web pages open in one browser window  
 (a) tab bar (b) pop-up helper  
 (c) tab row (d) address bar  
 (e) None of these
187. The \_\_\_\_\_ folder remains copies of messages that you have started but are not yet ready to send.  
 (a) drafts (b) outbox  
 (c) address (d) sent items  
 (e) None of these
188. A central computer that holds collections of data and program for many PCs, work station and other computer is a(n) \_\_\_\_\_  
 (a) Super computer (b) Mini computer  
 (c) Laptop (d) Server  
 (e) None of these
189. What is the process of copying software programs from secondary storage media to the hard disk is called  
 (a) Configuration (b) download  
 (c) storage (d) upload  
 (e) installation
190. When the pointer is positioned on a \_\_\_\_\_, it is shaped like a hand.  
 (a) grammar error (b) formatting error  
 (c) screen tip (d) hyperlink  
 (e) spelling error
191. When you save your data to \_\_\_\_\_, it will remain intact even when the computer is turned off.  
 (a) RAM (b) Mother board  
 (c) Secondary storage (d) Primary storage device  
 (e) None of these
192. The \_\_\_\_\_ allows you to access object and start programme.  
 (a) Default menu (b) XP menu  
 (c) Start menu (d) Stop menu  
 (e) None of these
193. Which of the following is an operating system?  
 (a) MS Windows (b) Mac  
 (c) MS DOS (d) Windows NT  
 (e) All of the above
194. What is correcting errors in a program called?  
 (a) Interpreting (b) Translating  
 (c) Debugging (d) Compiling  
 (e) None of these
195. What is the other name of LAN card?  
 (a) Modem (b) Network connector  
 (c) Internet card (d) NIC  
 (e) None of these
196. The standard protocol of the internet is \_\_\_\_\_?  
 (a) TCP/IP (b) Java  
 (c) HTML (d) Flash  
 (e) None of these
197. Windows 10 is an example of a \_\_\_\_\_?  
 (a) Application software (b) Browser  
 (c) Operating system (d) Shareware  
 (e) None of these
198. Which of the following is machine independent program?  
 (a) High level language  
 (b) Low level language  
 (c) Assembly level language  
 (d) Machine language  
 (e) None of these
199. Transformation of input into output is performed by \_\_\_\_\_?  
 (a) Peripherals (b) Memory  
 (c) Storage (d) CPU  
 (e) None of these
200. A \_\_\_\_\_ is a non-impact printer that can produce very high-quality letter-perfect printing.  
 (a) daisy wheel printer (b) laser printer  
 (c) dot-matrix printer (d) thermal printer  
 (e) drum printer

| ANSWER KEY |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1          | (a) | 21 | (d) | 41 | (b) | 61 | (a) | 81  | (d) | 101 | (c) | 121 | (b) | 141 | (d) | 161 | (e) | 181 | (a) |
| 2          | (c) | 22 | (c) | 42 | (a) | 62 | (e) | 82  | (e) | 102 | (b) | 122 | (d) | 142 | (b) | 162 | (e) | 182 | (b) |
| 3          | (b) | 23 | (c) | 43 | (a) | 63 | (d) | 83  | (c) | 103 | (a) | 123 | (d) | 143 | (e) | 163 | (d) | 183 | (c) |
| 4          | (d) | 24 | (c) | 44 | (e) | 64 | (c) | 84  | (b) | 104 | (b) | 124 | (c) | 144 | (c) | 164 | (d) | 184 | (a) |
| 5          | (a) | 25 | (a) | 45 | (b) | 65 | (d) | 85  | (d) | 105 | (c) | 125 | (b) | 145 | (b) | 165 | (a) | 185 | (b) |
| 6          | (a) | 26 | (b) | 46 | (a) | 66 | (d) | 86  | (a) | 106 | (b) | 126 | (b) | 146 | (d) | 166 | (c) | 186 | (a) |
| 7          | (d) | 27 | (e) | 47 | (c) | 67 | (d) | 87  | (e) | 107 | (b) | 127 | (d) | 147 | (e) | 167 | (d) | 187 | (a) |
| 8          | (c) | 28 | (d) | 48 | (d) | 68 | (c) | 88  | (c) | 108 | (c) | 128 | (b) | 148 | (d) | 168 | (b) | 188 | (c) |
| 9          | (b) | 29 | (b) | 49 | (b) | 69 | (b) | 89  | (a) | 109 | (d) | 129 | (b) | 149 | (b) | 169 | (c) | 189 | (e) |
| 10         | (d) | 30 | (c) | 50 | (d) | 70 | (a) | 90  | (d) | 110 | (b) | 130 | (c) | 150 | (c) | 170 | (b) | 190 | (d) |
| 11         | (d) | 31 | (a) | 51 | (a) | 71 | (d) | 91  | (b) | 111 | (b) | 131 | (d) | 151 | (b) | 171 | (a) | 191 | (c) |
| 12         | (a) | 32 | (c) | 52 | (c) | 72 | (c) | 92  | (e) | 112 | (b) | 132 | (c) | 152 | (a) | 172 | (a) | 192 | (a) |
| 13         | (b) | 33 | (d) | 53 | (e) | 73 | (b) | 93  | (c) | 113 | (c) | 133 | (b) | 153 | (a) | 173 | (b) | 193 | (e) |
| 14         | (b) | 34 | (d) | 54 | (d) | 74 | (e) | 94  | (d) | 114 | (a) | 134 | (c) | 154 | (d) | 174 | (c) | 194 | (c) |
| 15         | (b) | 35 | (c) | 55 | (b) | 75 | (a) | 95  | (a) | 115 | (b) | 135 | (d) | 155 | (e) | 175 | (d) | 195 | (d) |
| 16         | (d) | 36 | (b) | 56 | (c) | 76 | (b) | 96  | (e) | 116 | (b) | 136 | (a) | 156 | (c) | 176 | (d) | 196 | (a) |
| 17         | (a) | 37 | (b) | 57 | (e) | 77 | (c) | 97  | (a) | 117 | (c) | 137 | (b) | 157 | (d) | 177 | (a) | 197 | (c) |
| 18         | (a) | 38 | (b) | 58 | (d) | 78 | (d) | 98  | (d) | 118 | (c) | 138 | (d) | 158 | (a) | 178 | (c) | 198 | (a) |
| 19         | (b) | 39 | (d) | 59 | (a) | 79 | (a) | 99  | (d) | 119 | (a) | 139 | (d) | 159 | (b) | 179 | (c) | 199 | (d) |
| 20         | (a) | 40 | (a) | 60 | (b) | 80 | (d) | 100 | (c) | 120 | (c) | 140 | (b) | 160 | (a) | 180 | (d) | 200 | (b) |

## ANSWERS & EXPLANATIONS

61. (a) In the sentence, at the place of you may not know it, there should be you do not know it, Here, present indefinite will be used.

64. (c) In the sentence, at the place of and have stay at the station, there should be only stay at the stations, In the sentence, the use of have to is superfluous.

65. (d) In the sentence, at the place of a distinguished musician there should be distinguished musician.

81. (d)  $3251 + 507 + 365 + ? = 300 + ? = 4207 - 3007 = 1200$

82. (e) Given Exp.  $= \frac{800 \times 50 \times 1296}{64 \times 36} \times \frac{216}{4} = 450$

83. (c)  $107 \times 107 + 93 \times 93 = (107)^2 + (93)^2$   
 $= (100 + 7)^2 + (100 - 7)^2 = 2(100^2 + 7^2)$   
 $= 2(10000 + 49)$   
 $= 2 \times (10049) = 20098$

84. (b)  $? = 34.667 - 15.597 - 8.49 - 0.548$   
 $= 34.667 - 24.636 = 10.031.$

85. (d)  $? = \frac{[(140)^2 \div 70 \times 16]}{14} \div 8$

$$= \frac{4480 \div 8}{14} = \frac{560}{14} = 40$$

86. (a)  $? = 456 + 24 \times 0.75 - 12$   
 $= 456 + 18 - 12 = 462$

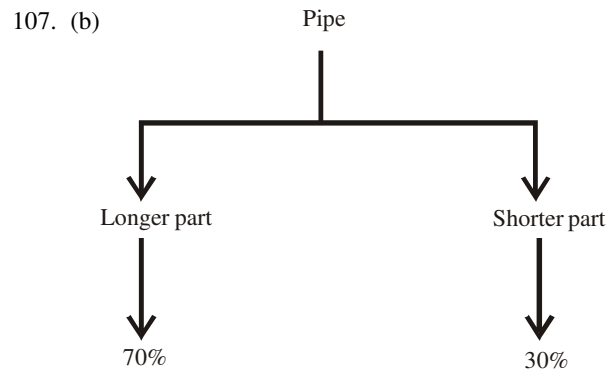
87. (e)  $? = \sqrt{\sqrt{17956} + \sqrt{24025}}$   
 $= \sqrt{134 + 155} = \sqrt{289} = 17$

88. (c)  $? = 5\frac{1}{4} + 6\frac{2}{3} + 7\frac{1}{6}$   
 $= 5 + 6 + 7 + \left( \frac{1}{4} + \frac{2}{3} + \frac{1}{6} \right)$   
 $= 18 + \frac{13}{12} = 18 + 1\frac{1}{12} = 19\frac{1}{12}$



89. (a) 40% of 250 = 50% of ?  
 $\Rightarrow 100 = \frac{1}{2} \times ? \Rightarrow 100 \times 2 = 200$
90. (d)  $? = \frac{568.3 - 40\% \times 845}{6.58} = \frac{568.3 - 338}{6.58}$   
 $= \frac{230.3}{6.58} = 35$
91. (b) The given series is  
 $\times 2 + 1, \times 2 + 3, \times 2 + 4, \dots$
92. (e) The given series is  $\div 2 - 6$   
 Reqd no. =  $50 \div 2 - 6 = 25 - 6 = 19$
93. (c) The given series is  
 $\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5, \times 6 + 6,$
94. (d)  $(1015 + 1) \div 2 = 508$   
 $(508 + 2) \div 2 = 255$   $(255 + 3) \div 2 = 129$   
 $(129 + 4) \div 2 = 66.5$   $(66.5 + 5) \div 2 = 35.75$   
 $(35.75 + 6) \div 2 = 20.875$
95. (a) The given series is  
 $\times 1, \times 1.5, \times 2, \times 2.5, \dots$
96. (e) Required percentage  
 $= \frac{0.9}{12} \times 100 = 7.5\%$
97. (a) Required average =  $\frac{37.8 \times 100}{5} = 756$
98. (d) Required number of music shows after the increase  
 $= 25.4 \times \frac{105}{100} = 26.67 \times 100 = 2667$
99. (d) Required ratio =  $\frac{12.4}{9.8} = 62 : 49$
100. (c) Total number of stand-up comedy shows in all cities together =  $7.8 \times 100 = 780$
101. (c) 161, 171, 221, are divisible by 7, 3 and 13 respectively. But 173 is not divisible by any others numbers except 1 and 173.
102. (b) When a ball is dropped from a height = 36 m  
 $1^{\text{st}}$  bounce back =  $\frac{2}{3} \times 36 = 24$  m  
 $2^{\text{nd}}$  bounce back =  $\frac{2}{3} \times 24 = 16$  m  
 $3^{\text{rd}}$  bounce back =  $\frac{2}{3} \times 16 = \frac{32}{3} = 10\frac{2}{3}$  m.
103. (a) Let first number = x, second number = y  
 $\therefore \text{LCM} \times \text{HCF} = \text{Product of numbers} = x \times y$   
 Also,  $\text{LCM} = 16 \text{ HCF}$ ,  $\text{LCM} + \text{HCF} = 850$  and  $x = 50$   
 $\therefore 17\text{HCF} = 850$   
 $\Rightarrow \text{HCF} = 50$   
 Now,  $\text{LCM} = 16 \times 50 = 800$   
 $\therefore 800 \times 50 = 50 \times y$   
 $\therefore y = 800$

104. (b) Let two numbers by  $29x$  and  $29y$ .  
 $\therefore 29x + 29y = 232 \Rightarrow x + y = 8$   
 $\Rightarrow (x, y) = (1, 7), (3, 5)$   
 Since, one such pair is 87 and 145.  
 Hence, the other pairs is 203 and 29.
105. (c) Let man has originally `x  
 After 20% loss =  $\frac{x \times 80}{100} = \frac{8x}{10}$   
 After spending 25% =  $\frac{8x}{10} \times \frac{75}{100} = \frac{8x}{10} \times \frac{3}{4}$   
 According to the question,  
 $\frac{8x}{10} \times \frac{3}{4} = 480$   
 $\Rightarrow 8x \times 3 = 480 \times 4 \times 10$   
 $\therefore x = \frac{480 \times 4 \times 10}{8 \times 3} = 800$
106. (b) Let the cost price of the article be `x  
 After 20% profit  $\Rightarrow \frac{120x}{100} = 3600$   
 $x = 3000$   
 Now, profit percentage, when the article is sold for `3150  
 $= \frac{3150 - 3000}{3000} \times 100 - \frac{150}{3000} \times 100 = 5\%$



- Percentage of longer pipe as compare to shorter pipe  
 $= \frac{70 - 30}{30} \times 100 = \frac{40}{30} \times 100 = \frac{400}{3} \%$
108. (c) Let the age of X and Y are x years and y years respectively.  
 Then,  $(x + 4) = 4(y + 4)$   
 $\Rightarrow 6y + 4 = 4y + 16$   
 $\Rightarrow 2y = 12$   
 $\therefore y = 6$   
 $\therefore$  The present age of y = 6 years
109. (d) Let the number of boys and girls are  $7x$  and  $5x$ , respectively.

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According to question,

$$\Rightarrow 7x + 5x = 2400 \Rightarrow 12x = 2400$$

$$\therefore x = 200$$

$$\therefore \text{Number of girls} = 5x \\ = 5 \times 200 = 1000$$

110. (b) Let a person invest 4% of x.

According to question

$$\therefore \frac{x \times 4}{100} = \frac{(45000 - x)}{100} \times 6$$

$$\Rightarrow 2x = 45000 \times 3 - 3x$$

$$\Rightarrow x = \frac{45000 \times 3}{5} = 27000$$

Another part is ` 18000.

Let  $r$  = Average rate of interest

$$\text{Interest for 1st part in one year} = \frac{27000 \times 4}{100} = 1080$$

Similarly, interest for rest part in one year = 1080

Q Total interest = ` 2160

$$\therefore \frac{45000 \times r}{100} = 2160 \Rightarrow r = \frac{216}{45} = 4.8\%$$

111. (b) Let total number of candidates = 100

$$\therefore \text{Total marks of 40 candidates} = 40 \times 74$$

$$\text{Total marks of 60 candidates} = 60 \times 77$$

$$\therefore \text{Required average marks} = \frac{40 \times 74 + 60 \times 77}{100}$$

$$= \frac{2960 + 4620}{100} = \frac{7580}{100} = 75.80$$

112. (b) Given  $R = 10\%$ ,  $P = 400$  and  $T = \frac{3}{2}$  years

Compounding is half-yearly, then,

$$T = \frac{3}{2} \times 2 = 3 \text{ years ; } P = \frac{10}{2} = 5\%$$

$$\text{Amount, } A = P \left( 1 + \frac{R}{200} \right)^T$$

$$\left( \frac{5}{5} \right)^3$$

$$A = 400 \left( 1 + \frac{5}{100} \right)^3$$

$$= 400 \times \frac{21}{20} \times \frac{21}{20} \times \frac{21}{20} = 463.04$$

113. (c) Let the principal amount be `  $P$ .

$$\text{Given, SI} = \frac{1}{2} \text{ CI}$$

$$\Rightarrow \frac{P \times 8 \times 3}{100} = \frac{1}{2} \left[ 4000 \left( 1 + \frac{10}{100} \right)^2 - 4000 \right]$$

$$\Rightarrow \frac{24P}{100} = \frac{1}{2} \left[ 4000 \times \frac{121}{100} - 4000 \right]$$

$$= \frac{1}{2} [4840 - 4000]$$

$$\Rightarrow \frac{24P}{100} = 420 \Rightarrow P = \frac{420 \times 100}{24}$$

$$\Rightarrow P = 1750$$

114. (a) Let cost of 1 table be `  $x$  and cost of 1 chair be `  $y$ .

$$4x + 5y = 1000 \quad \dots (i)$$

|    | Table                                                 | Chair                                    |
|----|-------------------------------------------------------|------------------------------------------|
| CP | $4x$                                                  | $5y$                                     |
| SP | $4x \left( 1 + \frac{1}{10} \right) = \frac{44x}{10}$ | $5y \left( 1 + \frac{1}{5} \right) = 6y$ |

Q  $\text{SP} - \text{CP} = \text{Profit}$

$$\therefore \left( \frac{44x}{10} - 4x \right) + 6y - 5y = 120$$

$$\Rightarrow \frac{4x}{10} + y = 120 \quad \dots (ii)$$

From equations (i) and (ii),

$$x = 200$$

115. (b)  $x + y + \frac{xy}{100} = +20 - 20 - \frac{20 \times 20}{100} = -4\%$

Total selling price of a refrigerator and a camera  
= 12000 + 12000 = ` 24000

Now, loss is 4%

$$\text{CP} \times \frac{96}{100} = 24000$$

$$\text{CP} = 25000$$

$$\text{Loss amount} = (25000 - 24000) = 1000$$

116. (b) Let distance between starting and their destination be  $x$  km.

$$t_2 - t_1 = 2h$$

$$\Rightarrow \frac{x}{30} - \frac{x}{45} = 2$$

$$\Rightarrow \left( \frac{3x - 2x}{90} \right) = 2$$

$$\Rightarrow \frac{x}{90} = 2$$

$$\therefore x = 180 \text{ km,}$$

117. (c) Speed of train

$$= \frac{\text{Length of train}}{\text{Time taken to cross the stationary object}}$$

$\therefore$  Length of train = Speed of train  $\times$  Time taken to cross the stationary object

$$= \frac{72 \times 1000 \times 15}{3600} = 300 \text{ m}$$

118. (c) Distance Speed Hour/Day Speed

$$\begin{array}{ccc} \frac{1}{2} \downarrow & \frac{1}{2} \uparrow & \frac{15}{6} \uparrow \quad \frac{114}{x} \downarrow \\ & & 1:2 \\ & & 2:1 \\ & & 6:15 \end{array} \left. \vphantom{\begin{array}{ccc} \frac{1}{2} \downarrow & \frac{1}{2} \uparrow & \frac{15}{6} \uparrow \quad \frac{114}{x} \downarrow} \right\} 114: x$$

$$\therefore 1 \times 2 \times 6 \times x = 2 \times 1 \times 15 \times 114$$

$$\Rightarrow x = \frac{2 \times 15 \times 114}{2 \times 6} = 285 \text{ days}$$

119. (a) Area of triangular field

$$= \sqrt{s(s-a)(s-b)(s-c)}$$

$$s = \frac{a+b+c}{2} = \frac{41+40+9}{2} = 45 \text{ m}$$

$$\text{Area} = \sqrt{45 \times (45-41) \times (45-40) \times (45-9)}$$

$$= \sqrt{45 \times 4 \times 5 \times 36} = 180 \text{ m}^2 = 1800000 \text{ cm}^2$$

$$\text{Number of rose bed} = \frac{1800000}{900} = 2000.$$

120. (c)  $\frac{r_2}{r_1} = \frac{23}{22}$

$$\Rightarrow \frac{r_2 - r_1}{r_1} = \frac{23 - 22}{22}$$

$$\Rightarrow \frac{r_2 - r_1}{r_1} = \frac{1}{22}$$

$$\Rightarrow \frac{5}{r_1} = \frac{1}{22}$$

$$r_1 = 110 \text{ m}$$

$$\text{Diameter of inner circle} = 110 \times 2 \text{ m} = 220 \text{ m}$$

121. (b) Number after writing digits in ascending order is 1 2 3 4 5 7 8 9. So difference between the digits which are fourth from right and third from left =  $5 - 3 = 2$

122. (d) 14 W 16 R 4 V 3 P 5  
 $= 14 + 16 \div 4 - 3 \times 5 = 14 + 4 - 15 = 3$

123. (d) DE, NO, RW, RS (4 pair of letters) have as many letters between them as in English alphabets.

124. (c) The correct order is.  
 Key Lock Door Room Switch on  
 1 3 2 4 5

125. (b) The word from I, IV, VII, XI letters (S, E, L, S) is LESS.

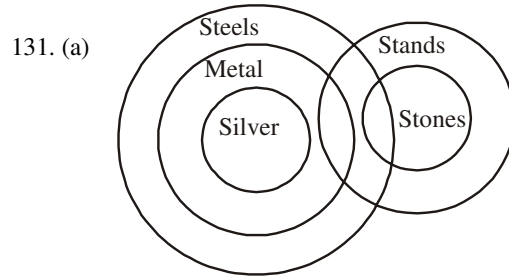
126. (b) Third to right of twelfth means 15th from left and which is A.

127. (d) Sixth to the right of the eighteenth from the right end means twelfth from right end which is M.

128. (b) 2 Such numbers which is preceded by a consonant and immediately followed by a symbol P8\$ and N4©.

129. (b) 2 Such consonants each of which is immediately preceded by a symbol and immediately followed by a number are : %K3, @N4.

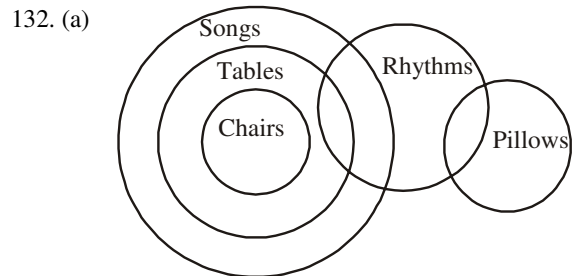
130. (c) Tenth from left is I and 8th from right is N. So B between I and N.



From this Venn Diagram, it is clear

III. Some stands are steels

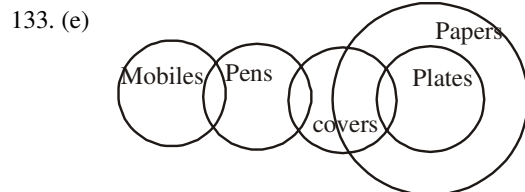
IV. Some stones are steels



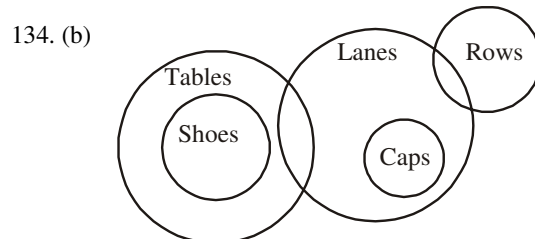
From this Venn Diagram, it is clear

I. Some tables are chairs

IV. All chairs are songs



From this Venn Diagram, it is clear none of the conclusion follows.



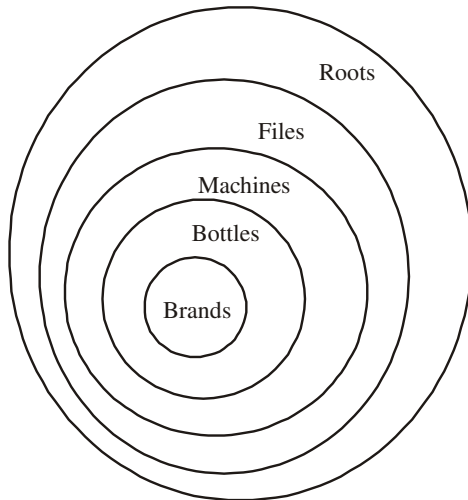
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From this Venn Diagram, it is clear

II. Some tables are shoes.

135. (e)

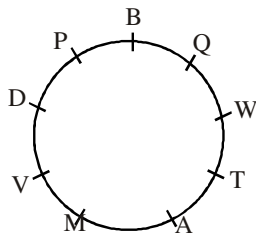


From this Venn Diagram, it is clear

I. Some files are machines

II. All brands are files.

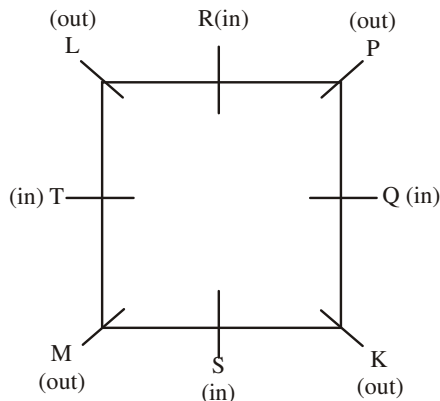
**Solutions : (136-140)**



136. (a) 137. (b) 138. (d) 139. (d)

140. (b)

**Solutions: (141-145)**



141. (d) 142. (b) 143. (e) 144. (c) 145. (b)

**Solutions : (146-150)**

There is no definite arrangement given. So we will have to start with 2 tables taking Finance with 5th floor on the 1st table, and taking Finance with 2nd floor on the 2nd table. And then proceed. In the last the table which does not give any contradiction will be final arrangement.

Final arrangement is

**Floors Subject**

|   |           |
|---|-----------|
| 7 | math      |
| 6 | account   |
| 5 | finance   |
| 4 | computer  |
| 3 | marketing |
| 2 | physics   |
| 1 | english   |

146. (d) 147. (d) 148. (e) 149. (d) 150. (b)

151. (c) 'de' and 'ik' is present in first two codes, and 1st two codes contain 'sat' and 'on' in common, so 'de' is either 'sat' or 'on', 'ik' and 'on' present in first three codes, so de - sat

152. (d) 'da' and 'table' only present in 2nd code, so table-da 'on' and 'ik' present in first three, so on-ik 'she' and 'ja' only present in 1st code, so she-ja

153. (a) 'on' is 'ik', so from 1st and 3rd code, chair - ma

154. (d) 'she' is 'ja' as from 1st code. 'cart' is 'pa'. 'smart' only present in last and also 'looking' only in last, so for smart - 'jo' or 'va'.

155. (d) on - ik, cart - pa, table - da 'was' and 'su' not present anywhere in codes

156. (e)  $P = Q \geq R > X$ , so  $P > X$

$Q \geq R = S \geq T = W$ , so  $Q \geq W$

157. (a) From question

$P = Q \geq R = S > T \geq X \geq V$

$\Rightarrow P > X$  (True)

$\Rightarrow \Pi > P$  (False)

158. (d)  $D > W \leq X > L$ , so no relation between D and L

$A \leq T = P < K = N$ , so  $A < N$

159. (a)  $J \leq L \leq H \leq B$ , so  $J \leq B$  is definitely true, so  $J > B$  false

160. (b)  $T > P \geq J$ , so  $T > J$

$G = J \leq P \leq B = H$ , so  $G \leq H$

# SBI Clerk Solved Paper-2014

Held on August 2014

(Based on Memory)

Time : 135 minutes

Max. Marks : 200

## General Awareness

1. Which is a tactical surface-to-surface short-range ballistic missile (SRBM) developed by DRDO of India under the Integrated Guided Missile Development Program ?  
 (a) Prithvi (b) Agni  
 (c) Prahar (d) Dhanush  
 (e) None of these
2. The Commonwealth Heads of Government Meeting 2015, also known as CHOGM 2015t will be held in \_\_\_\_\_:  
 (a) Mauritius (b) Malta  
 (c) Malaysia (d) Vanuatu  
 (e) None of these
3. Which place hosted the two-day 24th ASEAN summit to discuss the future development of the group ?  
 (a) New Delhi (b) Indonesia  
 (c) Brunei (d) Bangkok  
 (e) Nay Pyi Taw
4. Azlan Shah who died recently is a -  
 (a) Hockey Player (b) Football Player  
 (c) Cricket player (d) Polo player  
 (e) None of these
5. Which city is best known for its oil refinery ?  
 (a) Baiji (b) Mumbai  
 (c) Perth (d) Chad  
 (e) None of these
6. Who is the Chairman of Bharatiya Mahila Bank ?  
 (a) Aisha De Sequeira (b) Arundhati Bhattacharya  
 (c) Chanda Kochhar (d) Archana Hingorani  
 (e) Usha Ananatha Subramaniam
7. Which Article of the Constitution of India, is the annual budget of the Republic of India ?  
 (a) Article 12 (b) Article 112  
 (c) Article 21 (d) Article 11  
 (e) None of these
8. Which state has the highest rural population according to census 2011?  
 (a) Bihar (b) Gujarat  
 (c) Uttar Pradesh (d) Andhra Pradesh  
 (e) Himachal Pradesh
9. Which state has the highest urban population according to census 2011?  
 (a) Bihar (b) Gujarat  
 (c) Uttar Pradesh (d) Maharashtra  
 (e) Himachal Pradesh
10. Indian Oil Corporation is going to set up an oil refinery at  
 (a) Paradip (b) Jatni  
 (c) Ranchi (d) Raipur  
 (e) Korbi
11. Which bank hastied with New India Assurance to launch health insurance products for women account holders of the bank.  
 (a) State bank of Inadia  
 (b) ICICIbank  
 (c) Punjab National Bank  
 (d) Bhartiya Mahila Bank  
 (e) None of these
12. Recently which car plant has been shut down by Hindustan Motors Ltd, the maker of the Ambassador car ?  
 (a) Uttarpara plant near (Kolkata)  
 (b) The Tiruvallur plant near Chennai  
 (c) Port Okha plant near Gujarat  
 (d) Pithampur (Madhya Pardesh)  
 (e) None of these
13. Recently in which state Solar Thermal Power Plant has been installed ?  
 (a) Madhya Pardesh (b) Gujarat  
 (c) Rajsthan (d) Odisha  
 (e) Maharashtra
14. Why the government has banned on imports of milk and its products from China for one more year till June 2015?  
 (a) Due to presence of melamine, used for making plastics and fertiliser  
 (b) Due to increase in procurement costs.  
 (c) Due to wrong policies  
 (d) Due to lack of products  
 (e) None of these
15. Recently Navaratna status has been given to which organization?  
 (a) National Buildings Construction Corporation Limited (NBCC) and Engineers India Limited (EIL)  
 (b) Airport Authority of India  
 (c) Balmer Lawrie & Co. Limited & Bharat Coking Coal Limited  
 (d) Airport Authority of India & Bharat Coal limited  
 (e) None of these
16. Who has been chosen for the prestigious 49th Jnanpith award for 2013?  
 (a) Kedarnath Singh  
 (b) Chandrashekhara Kambara  
 (c) Pratibha Ray  
 (d) Ravuri Bharadvaja  
 (e) None of these
17. Who is the Minister of Consumer Affairs, Food and Public Distribution ?  
 (a) Narendra Modi (b) Sushma Swaraj  
 (c) Rajnath Singh (d) Arun Jailtey  
 (e) Ram Vilas Paswan



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18. Who is the Minister for Road Transport and Highways ?  
(a) Nitin Gadkari (b) Narendra Modi  
(c) Sushma Swaraj (d) Rajnath Singh  
(e) Arun Jailtey
19. Who is the current SBI chairman ?  
(a) Aisha De Sequeira  
(b) Arundhati Bhattacharya  
(c) Chanda Kochhar  
(d) Archana Hingorani  
(e) Usha Ananatha Subramaniam
20. The Head of the Reserve Bank of India is officially known as  
(a) President of RBI  
(b) Chief Executive of RBI  
(c) Managing Director (MD) of RBI  
(d) Executive Director of RBI  
(e) Governor of RBI
21. An engineer working in a big city in India wishes to send some money to his/her parents in a small village. How can a bank help him/her ? (Both of them have accounts in the branches of the same bank.)  
A. By issuing a Demand Draft.  
B. By opening a letter of credit in the name of his/her parents.  
C. Through E-transfer of money  
(a) Only A (b) Only B  
(c) Only C (d) Both A and B  
(e) Both A and C
22. Coins of which of the following denominations are easily available in India and are used by all of us in our day-to-day shopping ?  
A. ` 5 B. ` 2 C. ` 50  
(a) Only A (b) Only B  
(c) Only C (d) Both A and B  
(e) All A, B and C
23. The two main seasons of cropping in India are known as \_\_\_\_\_.  
(a) Hot-Cold (b) Winter-Spring  
(c) Summer-Winter (d) Rainy-Cold  
(e) Kharif-Rabi
24. International Day of Non-violence is observed on the birth day of \_\_\_\_\_.  
(a) Jawahar Lal Nehru (b) Indira Gandhi  
(c) Rajiv Gandhi (d) Sonia Gandhi  
(e) Mahatma Gandhi
25. The National Stock Exchange is located in \_\_\_\_\_.  
(a) New Delhi (b) Mumbai  
(c) Kolkata (d) Chennai  
(e) Bangalore
26. Which of the following countries does not play international cricket ?  
(a) Russia (b) England  
(c) South Africa (d) Pakistan  
(e) India
27. Which of the following is the autobiography of the film actor Dev Anand ?  
(a) My Story (b) Sunny Days  
(c) Romancing With Life (d) Wings of Fire  
(e) None of these
28. Which of the following Prizes/Awards is given for excellence in the field of Sports ?  
(a) Pulitzer prize  
(b) Shanti Swarup Bhatnagar Award  
(c) Arjuna Award  
(d) Shram Vir Purushkar  
(e) None of these
29. Manavjit Singh Sandhu is a well known \_\_\_\_\_.  
(a) Film Actor (b) Journalist  
(c) Social Worker (d) Sportsman  
(e) Author
30. Which of the following is not a public sector company ?  
(a) HPCL (b) BPCL  
(c) BHEL (d) Gillette  
(e) All of these
31. A customer drawing a cheque on a bank has a right to  
(a) Take back the cheque from the bank after it is paid  
(b) Take back the cheque from the bank after it is paid with the permission of RBI  
(c) Stop payment of the cheque before it is paid  
(d) Stop payment of the cheque after it is paid  
(e) Stop payment of the cheque before it is issued
32. Which of the following States is among the North East States of India ?  
(a) Jammu & Kashmir (b) Punjab  
(c) Himachal Pradesh (d) Meghalaya  
(e) Rajasthan
33. Which of the following is a mineral?  
(a) Isabgol (b) Camphor  
(c) Tobacco (d) Nickel  
(e) Jute
34. The Banking Ombudsman  
(a) is in charge of bank loans for buses  
(b) fixes the rates of interest for loans  
(c) resolves complaints of customers  
(d) issues licences for new bank branches  
(e) is the head of all nationalised banks
35. What does the letter 'L' stands for in the term LAF commonly used in financial/economic news ?  
(a) Liquidity (b) Least  
(c) liabilities (d) Long  
(e) Liquid
36. What is the maximum period for which domestic term deposits are normally accepted by banks in our country ?  
(a) 3 years (b) 5 years  
(c) 7 years (d) 10 years  
(e) 12 years
37. Which of the following is the name of the currency of a country ?  
(a) Mexico (b) Peru  
(c) Syria (d) Zambia  
(e) Lira
38. Which of the following is the name of a Scientific Instrument ?  
(a) Plasma (b) Pascal  
(c) Radiation (d) Lactometer  
(e) Adrenal Cortex

39. Many times we read a term DoT in various newspapers. In connection of 2G Spectrum. What is its full form ?  
 (a) Department of Transport  
 (b) Department of Training  
 (c) Directorate of Technology  
 (d) Director of Tele services  
 (e) Department of Telecom
40. Which of the following terms is used in the game of Chess ?  
 (a) Checkmate (b) Hoops  
 (c) Stroke (d) Heave  
 (e) Deuce

### General English

**DIRECTIONS (Qs. 41-45) :** In each question below a sentence with four words printed in bold type is given. These are numbered as (a), (b), (c) and (d). One of these four words printed in bold may be either wrongly spelt or inappropriate in the context of the sentence. Find out the word, which is wrongly spelt or inappropriate, if any. The number of that word is your answer. If all the words printed in bold are correctly spelt and also appropriate in the context of the sentence, mark (e) i.e. 'All Correct' as your answer.

41. **Bye** (a) / the summer of 1939, Hitler was **ready** (b) / to **unleash** (c) / his army on **Europe**. (d) / All correct (e).
42. The two **national** (a) / **emblems** (b) / **of** India are of (c) / Buddhist **origin**. (d) / All correct (e)
43. **Political** (a) / **desicions** (b) / **ought** (c) / to have a **rationalle**. (d) / All correct (e)
44. **Traditionalli**. (a) / sales get a **boost** (b) / in the **festival** (c) / **season**. (d) / All correct (e)
45. **Fifteen** (a) percent of India's land is **still** (b) / **covered** (c) / by **forrests**. (d) / All correct (e)

**DIRECTIONS (Qs. 46-55) :** In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Once upon a time there lived a wise man by the (46) of Mamad. He never lied. All the people in the land, knew about him. The king heard about Mamad and (47) his subjects to bring him to the palace. He looked at the wise man and asked: "Mamad, is it true, that you have never lied?" "It is true, your Majesty." "And you will never lie in your life" questioned the king. "I am sure of that," replied Mamad.

(48) days passed and the king called Mamad once again. There was a big crowd, the king was (48) to go hunting. The king held his horse by the mane, his left foot was already on the stirrup. He. (50) to Mamad. "Go to my summer palace and tell the queen I will be with her for lunch. Tell her to (51) a big feast. You will have lunch with me then." Mamad bowed down and went to the queen. Then the king laughed and said. "We won't go hunting and now Mamad will lie to the queen. Tomorrow we will laugh on his behalf. "But the wise Mamad went to the palace and said, "maybe you should prepare a big feast for lunch tomorrow, and maybe you shouldn't. Maybe the king will come by noon, and maybe he won't."

"(52) me will he come, or will he not?" – asked the queen. "I do not know whether he put his right foot on the stirrup, or he put his left foot on the ground after I left". Everybody (53) for the king. He came the next day and said to the queen. "The wise Mamad, who never lies, (54) to you yesterday." But the queen told him Mamad's exact words. And the king (55), that the wise man never lies, and says only that, which he see's with his own eyes.

46. (a) name (b) sound  
 (c) call (d) identity  
 (e) label
47. (a) demanded (b) send  
 (c) ordered (d) request  
 (e) sanctioned
48. (a) Several (b) Most  
 (c) Lots (d) Glorious  
 (e) Long
49. (a) just (b) tired  
 (c) schedule (d) planned  
 (e) about
50. (a) wished (b) order  
 (c) said (d) featured  
 (e) send
51. (a) leave (b) prepare  
 (c) figure (d) show  
 (e) prove
52. (a) Say (b) Rescue  
 (c) Reveal (d) Tell  
 (e) Understand
53. (a) lied (b) left  
 (c) heard (d) ran  
 (e) waited
54. (a) wrong (b) spoke  
 (c) lied (d) did  
 (e) deceive
55. (a) felt (b) understands  
 (c) realised (d) convinced  
 (e) rejoiced

**DIRECTIONS (Qs. 56-60) :** Read each sentence to find out whether there is any grammatical mistake/error in it. The error if any, will be in one part of the sentence. Mark the number of the part with error as your answer. If there is no error, mark (e).

56. The cost of constructing (a) / houses are increased (b) / because of the high (c) / price of cement. (d) / No error (e).
57. According to the Twelfth (a) / Five Year Plan, India should (b) / invest one trillion dollars (c) / in infrastructure projects. (d) / No error (e)
58. To increase the selling (a) / of products in rural areas (b) / the company will hire (c) / over five hundred trainees. (d) / No error (e)
59. We have spent (a) / most of the profits (b) / that we earn (c) / last year on purchasing new computers, (d) / No error (e).
60. The Government has (a) / promised to revise (b) / the pension scheme for bank (c) / staff since next year. (d) / No error (e)

**DIRECTIONS (Qs. 61-70) :** Read the following passage carefully and answer the questions given below it. Certain words are printed in bold to help you to locate them while answering some of the questions.

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Lumbini is a beautiful place in the southern part of Nepal. About 2,500 years ago, a baby boy was born to the king and queen. The baby was named Siddharth. His mother, died when he was five days old. The baby boy grew into a **handsome** prince. His father tried to keep him happy. The little prince had everything he needed — fine clothes, the best food and good toys. But he was not interested in them. He wanted to be alone and was always found in deep thought. Later, he was married to a beautiful princess. She was called Yashodhara. They had a son and named him Rahul. The king hoped that Siddharth would become a great ruler.

One day Siddharth was driving through the street in his chariot. He saw an old man and then a sick man. The oldman could **hardly** walk. The sick man groaned in pain. Then he saw some people carrying a dead body, others were wailing and weeping at the loss of a dear one. Siddharth was very upset to see so much suffering and unhappiness. He was shocked. Then he saw an entirely different sight. A man in yellow robes was walking along the street. There was no trace of sadness on his **radiant** face, instead it shone with peace. He was a monk who had given up the world to escape the misery of life.

Siddharth wanted to find out why there was so much suffering in the world. He wanted to find out how men could be free of misery. He could find neither peace nor happiness in the life he was leading at the palace. One night Siddharth left his home, his wife and his little son. He went into the forest. He wanted to search for a way out of suffering and sorrow for all mankind. He meditated and got enlightenment. He became Lord Buddha, the enlightened one. Truth was **revealed to** him and he learnt all the secrets of life and the world.

He found out that the world was full of sorrow and unhappiness. The reason for it was greed and selfishness. To be free from suffering, we must be free from greed and desire. Desire is the **root** cause of all human suffering. He advocated the Middle Path and asked his followers to avoid the two extremes.

61. Which of the following sentences is **true** according to the passage ?
- Lord Budha was born in Lumbini.
  - The little boy was very happy with fine clothes, good food and toys.
  - Siddharth divorced his first wife.
  - Siddharth and Yashodhara had no children and so they were very unhappy.
  - None of these
62. What was Siddharth interested in as a child ?
- He was interested in making new friends as he did not have any siblings.
  - His interests were largely in studying and reading books.
  - He was interested in the best of clothes and good toys.
  - In spending time alone in deep thought.
  - In spending time with nature.
63. Which of the following can be inferred about Siddharth ?
- Siddharth was different from other princes his age.
  - Siddharth was a spoilt child.
  - Siddharth was lonely because he did not have a mother.
- Only (A)
  - Only (B)
  - Only (C)
  - Only (B) and (C)
  - All (A), (B) and (C)

64. What did the King wish for his son, Siddharth ?
- He wanted Siddharth to become a great ruler.
  - He wished that Siddharth would not marry Yashodhara.
  - He wished that Siddharth's son would take over his kingdom.
  - He wished that Siddharth would behave like the other princes.
  - He wished that Siddharth would find the answer to all the suffering in the world.
65. What incident changed Siddharth's life forever ?
- His mother's death.
  - The incident where he saw a monk free from the misery of life.
  - The birth of his son
  - His marriage to Yashodhara.
  - The time he met Lord Buddha.
66. Why did Siddharth leave his home ?
- He wanted to run away from his wife and son
  - He did not want to become heir to his father's throne
  - He was in search of a bigger kingdom
  - He wanted to see the world
  - He wanted to search for a way out of suffering and spend time in meditation.
67. According to Siddharth what was the reason for suffering and unhappiness in the world ?
- The increased number of deaths
  - The advocacy of the Middle Path
  - Human greed and selfishness
  - People were unaware of the benefits of meditation.
  - None of these
68. What according to passage is the root cause for all human suffering ?
- Desire
  - Happiness
  - Meditation
- Only (A)
  - Only (B) and (C)
  - Only (B)
  - Only (C)
  - All (A), (B) and (C)
69. Why was Siddharth called the enlightened one ?
- He was smarter than all the princes of his age.
  - He was the King's son.
  - Truth was revealed to him through meditation.
  - He had a great ability to resist temptation
  - He always wanted to be left alone
70. Why did Lord Buddha advocate the Middle Path ?
- He believed that it was the only way to eliminate poverty.
  - He believed that it was the only way of obtaining true happiness.
  - He was a staunch believer of living an extreme life.
  - He did not have a happy life being a prince.
  - He was not a risk-taker.

**DIRECTIONS (Qs. 71-75) :** In the following questions, sentences are given with blanks to be filled with an appropriate word. Choose the best alternative among them.

71. Mr. Murugan has been in this college \_\_\_\_\_ 2010.
- for
  - since
  - after
  - before
  - None of these

72. We attended a \_\_\_\_\_ discourse.  
 (a) spiritual (b) spirituous  
 (c) spirituality (d) spiritually  
 (e) None of these
73. The valley is known for its \_\_\_\_\_ growth of vegetation.  
 (a) luxurious (b) luxury  
 (c) luxuriant (d) luxuriously  
 (e) None of these
74. Satyajitray's films \_\_\_\_\_ all barriers of caste, creed and religion. They are universal.  
 (a) transcend (b) transcends  
 (c) trancend (d) transend  
 (e) None of these
75. I could hardly recognize him \_\_\_\_\_ I saw him.  
 (a) after (b) but  
 (c) and (d) when  
 (e) None of these

**DIRECTIONS (Qs. 76-80) :** Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions that follow :

- (A) The woodcutter thankfully broke off from work and sat down to eat the delicious meal that his wife had sent for him.  
 (B) He was in a good mood that particular morning and soon started singing as he swung his axe at the log of wood in front of him.  
 (C) After he had eaten his meal and taken rest for a while the woodcutter got back to work.  
 (D) The hours passed and the sun became hotter than ever and very soon perspiration started breaking out on the woodcutter's hands and face.  
 (E) One hot summer's morning a woodcutter was hard at work, chopping wood into small pieces, so that he could sell them in the market.  
 (F) As it neared afternoon, his wife sent their little son to him with food for the afternoon.
76. Which of the following should be the **FOURTH** sentence after rearrangement ?  
 (a) F (b) E  
 (c) D (d) C  
 (e) B
77. Which of the following should be the **FIRST** sentence after rearrangement ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
78. Which of the following should be the **SECOND** sentence after rearrangement ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) F
79. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E

80. Which of the following should be the **THIRD** sentence after rearrangement ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E

### Quantitative Aptitude

**DIRECTIONS (Qs. 81-95) :** What should come in place of the question mark (?) in the following questions ?

81.  $\sqrt[3]{13824} \times \sqrt{?} = 864$   
 (a) 1296 (b) 1156  
 (c) 1600 (d) 1024  
 (e) None of these
82.  $(91)^2 + (41)^2 - \sqrt{?} = 9858$   
 (a) 11236 (b) 10816  
 (c) 10404 (d) 9604  
 (e) None of these
83.  $4900 \div 28 \times 444 \div 12 = ?$   
 (a) 6575 (b) 6475  
 (c) 6455 (d) 6745  
 (e) None of these
84.  $125\% \text{ of } 260 + ?\% \text{ of } 700 = 500$   
 (a) 32 (b) 56  
 (c) 23 (d) 46  
 (e) None of these
85.  $3\frac{7}{11} + 7\frac{3}{10} \times 1\frac{1}{2} = ?$   
 (a)  $13\frac{1}{11}$  (b)  $14\frac{6}{11}$   
 (c)  $14\frac{9}{11}$  (d)  $10\frac{17}{22}$   
 (e) None of these
86.  $\frac{.23 - .023}{.0023 \div 23} = ?$   
 (a) 0.207 (b) 207  
 (c) 2070 (d) 0.0207  
 (e) None of these
87.  $1.05\% \text{ of } 2500 + 2.5\% \text{ of } 440 = ?$   
 (a) 37.50 (b) 37.25  
 (c) 370.25 (d) 372.50  
 (e) None of these
88.  $\frac{17 \times 4 + 4^2 \times 2}{90 \div 5 \times 12} = ?$   
 (a)  $\frac{25}{54}$  (b)  $\frac{22}{57}$   
 (c)  $\frac{11}{27}$  (d)  $\frac{13}{27}$   
 (e) None of these

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89.  $17\frac{2}{5} \times 4\frac{5}{8} - ? = 46\frac{7}{8}$
- (a)  $32\frac{3}{5}$  (b)  $33\frac{3}{5}$
- (c)  $33\frac{2}{5}$  (d)  $32\frac{2}{5}$
- (e) None of these
90.  $136\%$  of  $250 + ?\%$  of  $550 = 670$
- (a) 64 (b) 55
- (c) 56 (d) 65
- (e) None of these
91.  $3889 + 12.952 - ? = 3854.002$
- (a) 47.95 (b) 47.752
- (c) 47.095 (d) 47.932
- (e) None of these
92.  $(5 \times 5 \times 5 \times 5 \times 5)^4 \times (5 \times 5)^6 \div (5)^2 = (25)^?$
- (a) 10 (b) 17
- (c) 19 (d) 12
- (e) None of these
93.  $\frac{28 \times 5 - 15 \times 6}{7^2 + \sqrt{256} + (13)^2} = ?$
- (a)  $\frac{27}{115}$  (b)  $\frac{22}{117}$
- (c)  $\frac{25}{117}$  (d)  $\frac{22}{115}$
- (e) None of these
94.  $1.5 \times 0.025 + (?)^2 = 0.1$
- (a) 0.28 (b) 0.27
- (c) 0.25 (d) 0.235
- (e) None of these
95.  $\frac{(3.537 - 0.948)^2 + (3.537 + 0.948)^2}{(3.537)^2 + (.948)^2} = ?$
- (a) 4.485 (b) 2.589
- (c) 4 (d) 2
- (e) None of these

**DIRECTIONS (Qs. 96-100) :** Find out the approximate value which should come in place of the question mark in the following questions. (You are not expected to find the exact value.)

96.  $\frac{(10008.99)^2}{10009.001} \times \sqrt{3589} \times 0.4987 = ?$
- (a) 3000 (b) 300000
- (c) 3000000 (d) 5000
- (e) 9000000
97.  $196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.01 \times 4.001 \times 4.999 \times 4.999 = 196.1^3 \times 4 \times ?$
- (a) 100 (b) 16
- (c) 10 (d) 64
- (e) 32

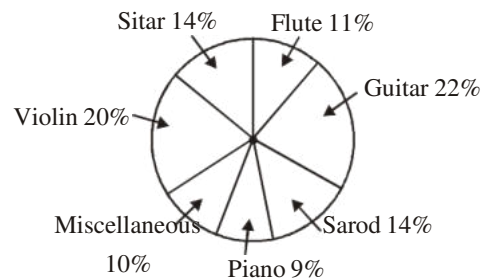
98.  $12.25 \times ? \times 21.6 = 3545.64$
- (a) 20 (b) 12
- (c) 15 (d) 13
- (e) None of these
99.  $? \%$  of  $45.999 \times 16\%$  of  $83.006 = 116.073$
- (a) 6 (b) 24
- (c) 19 (d) 30
- (e) 11
100.  $[(1.3)^2 \times (4.2)^2] \div 2.7 = ?$
- (a) 7 (b) 21
- (c) 18 (d) 11
- (e) 16

**DIRECTIONS (Qs. 101-105) :** What should come in place of question mark (?) in the following number series ?

101. 3 23 43 ? 83 103
- (a) 33 (b) 53
- (c) 63 (d) 73
- (e) None of these
102. 1 9 25 49 81 ? 169
- (a) 100 (b) 64
- (c) 81 (d) 121
- (e) None of these
103. 5 6 14 45 ?
- (a) 183 (b) 185
- (c) 138 (d) 139
104. 7 8 18 57 ?
- (a) 244 (b) 174
- (c) 186 (d) 226
- (e) None of these
105. 1, 8, 9, ?, 25, 216, 49
- (a) 60 (b) 64
- (c) 70 (d) 75
- (e) None of these

**DIRECTIONS (Qs. 106-110) :** Read the following chart and answer the questions that follows :

The following pie-chart shows the preference of musical instruments of 60,000 people surveyed over whole India.



106. If 2100 people be less from the number of people who prefer Flute, the percentage of people who prefer Flute would have been:
- (a) 9.5% (b) 6.5%
- (c) 7.5% (d) 8.5%



107. The total number of people who prefer either Sarod or Guitar, is greater than the total number of people who prefer either Violin or Sitar by :  
 (a) 1200 (b) 1600  
 (c) 1100 (d) 1400  
 (e) None of these
108. The number of people who prefer the musical instrument Sarod is :  
 (a) 7400 (b) 8400  
 (c) 6400 (d) 8600  
 (e) None of these
109. If  $16\frac{2}{3}\%$  of the people who prefer Piano, would go with the people who prefers Flute, the percentage of people who prefer Flute would have been :  
 (a) 13.5% (b) 14.5%  
 (c) 15.5% (d) 12.5%  
 (e) None of these
110. The number of people who prefer Guitar is greater than the total number of people who prefer either Flute or Piano by :  
 (a) 1200 (b) 1100  
 (c) 1300 (d) 1400  
 (e) None of these
111. The sum of the two digits of a two-digit number is 15 and the difference between the two digits of the two digit number is 3. What is the product of the two digits of the two digit number ?  
 (a) 72 (b) 56  
 (c) 54 (d) Cannot be determined  
 (e) None of these
112. A shopkeeper purchased 200 bulbs for ₹ 10 each. However, 5 bulbs were fused and had to be thrown away. The remaining were sold at ₹ 12 each. What will be the percentage profit ?  
 (a) 25 (b) 15  
 (c) 13 (d) 17  
 (e) None of these
113. The profit earned after selling a pair of shoes for ₹ 2,033 is the same as loss incurred after selling the same pair of shoes for ₹ 1,063. What is the cost of the shoes ?  
 (a) ₹ 1,650  
 (b) ₹ 1,548  
 (c) ₹ 1,532  
 (d) Cannot be determined  
 (e) None of these
114. Ajay spends 25 per cent of his salary on house rent, 5 per cent on food, 15 per cent on travel, 10 per cent on clothes and the remaining amount of ₹ 27,000 is saved. What is Ajay's income ?  
 (a) ₹ 60,000 (b) ₹ 80,500  
 (c) ₹ 60,700 (d) ₹ 70,500  
 (e) None of these
115. Number of students studying in colleges A and B are in the ratio of 3 : 4 respectively. If 50 more students join college A and there is no change in the number of students in college B, the respective ratio becomes 5 : 6. What is the number of students in college B ?  
 (a) 450 (b) 500  
 (c) 400 (d) 600  
 (e) None of these
116. The average age of 60 boys in a class was calculated as 12 years. It was later realised that the actual age of one of the boys in the class was 12.5 years but it was calculated as 14 years. What is the actual average age of the boys in the class?  
 (a) 11 years (b) 11.275 years  
 (c) 11.50 years (d) 11.975 years  
 (e) None of these
117. An aeroplane takes off 30 minutes later than the scheduled time and in order to reach its destination 1500 km away in time, it has to increase its speed by 250 km/h from its usual speed. Find its usual speed.  
 (a) 1000km/h (b) 750km/h  
 (c) 850km/h (d) 650km/h  
 (e) None of these
118. Pipes A and B can fill a tank in 5 and 6 hours, respectively. Pipe C can empty it in 12 hours. The tank is half full. All the three pipes are in operation simultaneously. After how much time, the tank will be full ?  
 (a)  $3\frac{9}{17}$  h (b) 11 h  
 (c)  $2\frac{8}{11}$  h (d)  $1\frac{13}{17}$  h  
 (e) None of these
119. A sum of money becomes eight times in 3 years if the rate is compounded annually. In how much time, the same amount at the same compound interest rate will become sixteen times ?  
 (a) 6 years (b) 4 years  
 (c) 8 years (d) 5 years  
 (e) None of these
120. If the compound interest on a certain sum of money for 3 years at 10% p.a. be ₹ 993, what would be the simple interest ?  
 (a) ₹ 800 (b) ₹ 950  
 (c) ₹ 900 (d) ₹ 1000  
 (e) None of these

### Reasoning Ability

121. In a certain code, a number 13479 is written as AQFJL and 2568 is written as DMPN. How is 396824 written in that code ?  
 (a) QLPNMJ (b) QLPNMF  
 (c) QLPMNF (d) QLPNDF  
 (e) None of these
122. In the following sequence or instructions, 1 stands for Run, 2 stands for Stop, 3 stands for Go, 4 stands for Sit and 5 stands for Wait. If the sequence is continued, which instruction will come next ?  
 4 4 5 4 5 3 4 5 3 1 4 5 3 1 2 4 5 4 5 3 4 5 3  
 (a) Wait (b) Sit  
 (c) Stop (d) Run  
 (e) None of these

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123. If the first and second letters in the word DEPRESSION were interchanged, also the third and the fourth letters, the fifth and the sixth letters and so on, which of the following would be the seventh letter from the right ?  
 (a) R (b) O  
 (c) S (d) P  
 (e) None of these
124. In a certain code 'na pa ka so' means 'birds fly very high', 'ri so la pa' means 'birds are very beautiful' and 'ti me ka bo' means 'the parrots could fly'. Which of the following is the code for 'high' in that language ?  
 (a) na (b) ka  
 (c) bo (d) so  
 (e) None of these
125. If 'P' denotes '-'; 'Q' denotes '÷', 'R' denotes '×' and 'W' denotes '+' then-  
 48 Q 12 R 10 P 8 W 4 = ?  
 (a) 56 (b) 40  
 (c) 52 (d) 44  
 (e) None of these
126. Laxman went 15 km to the west from my house, then turned left and walked 20 km. He then turned East and walked 25 km and finally turning left covered 20 km. How far was he from my house ?  
 (a) 5km (b) 10km  
 (c) 40km (d) 80km  
 (e) None of these
127. If 'yellow' means 'green', 'green' means 'white', white means 'red', 'red' means 'black', 'black' means 'blue' and 'blue' means 'violet', which of the following represents the colour of human blood ?  
 (a) black (b) violet  
 (c) red (d) blue  
 (e) None of these
128. A trader in order to code the prices of article used the letters of PSICHOLOGY in the form of '0 to 9' respectively. Which of the following code stands for ` 875.50 ?  
 (a) AIL.HP (b) AIL.HS  
 (c) ZYA.HO (d) ZCA.OP  
 (e) None of these

**DIRECTIONS (Qs. 129-133) :** In each of the following questions there are three items. These three items may or may not be related with one another. Each group of items may fit into one of the diagrams (a), (b), (c), (d) and (e). You have to decide in which of the following diagrams and groups of items may fit. The number of that diagram is the answer.

**Give answer (a)** if only conclusion I follows.

**Give answer (b)** if only conclusion II follows.

**Give answer (c)** if either I or II follows.

**Give answer (d)** if neither I nor II follows.

**Give answer (e)** if both I and II follow.

**129. Statements:**

All leaders are good team workers.

All good team workers are good orators.

**Conclusions:**

**I** Some good team workers are leaders.

**II** All good orators are leaders.

**130. Statements:**

All terrorists are human.

All humans are bad.

**Conclusions:**

**I** All terrorists are bad.

**II** No human can be a terrorist.

**131. Statements:**

Some teachers are followers.

Some followers are famous.

**Conclusions:**

**I** Some teachers are famous.

**II** Some followers are teachers.

**132. Statements:**

Some books are pens.

No pen is pencil.

**Conclusions:**

**I** Some books are pencils.

**II** No book is pencil.

**133. Statements:**

Some dedicated souls are angles

All social workers are angles.

**Conclusions:**

**I** Some dedicated souls are social workers

**II** Some social workers are dedicated souls

**DIRECTIONS (Qs. 134-135) :** Study the information given below and answer the questions following it:

Mohan is son of Arun's father's sister. Prakash is son of Reva, who is mother of Vikash and grandmother of Arun. Pranab is father of Neela and grandfather of Mohan. Reva is wife of Pranab.

**134. How is Mohan related to Reva ?**

(a) Grandson

(b) Son

(c) Nephew

(d) Data inadequate

(e) None of these

**135. How is Vikash's wife related to Neela ?**

(a) Sister

(b) Niece

(c) Sister-in-law

(d) Data inadequate

(e) None of these

**DIRECTIONS (Qs. 136-140) :** In the following questions the symbols @,  $\oplus$ , =,  $\odot$  and  $\ominus$  are used with the following meaning:

$P \odot Q$  means P is less than Q.

$P @ Q$  means P is greater than Q.

$P \oplus Q$  means P is greater than or equal to Q.

$P = Q$  means P is equal to Q.

$P \ominus Q$  means P is either smaller than or equal to Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true ? Give answer.

(a) if only conclusion I is true.

(b) if only conclusion II is true.

(c) if either I or II is true.

(d) if neither I nor II is true, and

(e) if both I and II are true.

**136. Statements:  $B @ V$ ,  $K \odot C$ ,  $C \oplus B$**

**Conclusions: I.  $V @ C$**

**II.  $B @ K$**

137. Statements :  $K @ T, S = K, T @ R$

Conclusions : I.  $S @ R$   
II.  $T = R$

138. Statements :  $U = M, P @ U, M @ B$

Conclusions : I.  $P = B$   
II.  $P @ B$

139. Statements :  $L @ N, J @ P, P @ L$

Conclusions : I.  $J = L$   
II.  $P = N$

140. Statements :  $H @ G, D @ E, H = E$

Conclusions : I.  $D @ H$   
II.  $G @ D$

**DIRECTIONS (Qs. 141- 145) :** Read the following information carefully to answer the questions that follow.

There are six teachers A, B, C, D, E and F in a school. Each of the teachers teaches two subjects, one compulsory subject and the other optional subject. D's optional subject is History while three others have it as compulsory subject. E and F have Physics as one of their subjects. F's compulsory subject is Mathematics which is an optional subject of both C and E. History and English are A's subjects but in terms of compulsory and optional subjects, they are reverse of those of D's. Chemistry is an optional subject of any one of them. There is only one female teacher in the school who has English as her compulsory subject.

141. What is C's compulsory subject ?

- (a) History (b) Physics  
(c) Chemistry (d) English  
(e) None of these

142. Who is a female member in the group ?

- (a) A (b) B  
(c) C (d) D  
(e) None of these

143. Who among the following has same optional subjects as that of the compulsory subject of F ?

- (a) D (b) B  
(c) A (d) C  
(e) None of these

144. Disregarding which is compulsory and which is the optional subject, who has the same two subjects combination as F ?

- (a) A (b) B  
(c) E (d) D  
(e) None of these

145. Which of the following groups of teachers has History as the compulsory subject ?

- (a) A, C and D (b) B, C and D  
(c) C and D (d) A, B and C  
(e) None of these

**DIRECTIONS (Qs. 146-150) :** Study the following information carefully and answer the questions given below

P, A, D, Q, T, M, R and B are sitting around a circle facing at the centre. D is third to the left of T who is fifth to the right of P. A is third to the right of B, who is second to the right of D. Q is second to the left of M.

146. Who is to the immediate right of D ?

- (a) M (b) Q  
(c) B (d) Data inadequate  
(e) None of these

147. Who is second to the right of M ?

- (a) B (b) R  
(c) T (d) Q  
(e) None of these

148. Who is second to the left of D ?

- (a) A (b) Q  
(c) B (d) P  
(e) Data inadequate

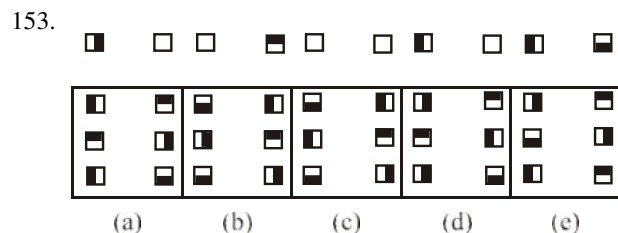
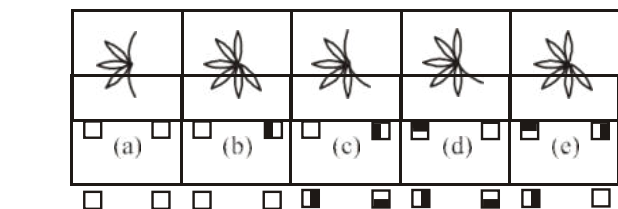
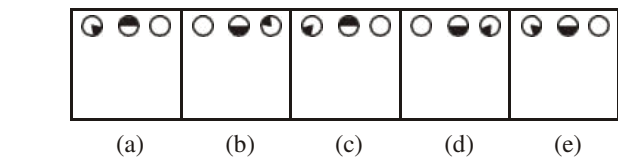
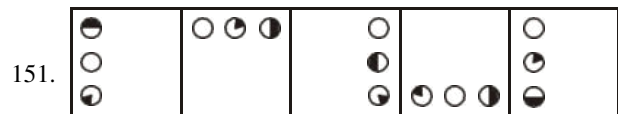
149. Which of the following pairs represents the immediate neighbours of A ?

- (a) PT (b) PB  
(c) TQ (d) PD  
(e) None of these

150. In which of the following pairs the first person is sitting to the immediate right of the second person ?

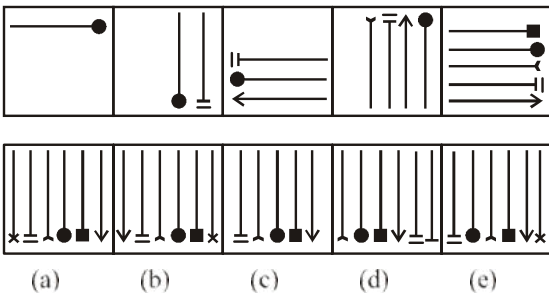
- (a) DM (b) BT  
(c) RA (d) PQ  
(e) PA

**DIRECTIONS (Qs. 151-155) :** Each of the following questions consists of unmarked figures followed by five figures marked a, b, c, d and e. Select a figure from the marked figures which will continue the series established by the unmarked figures.

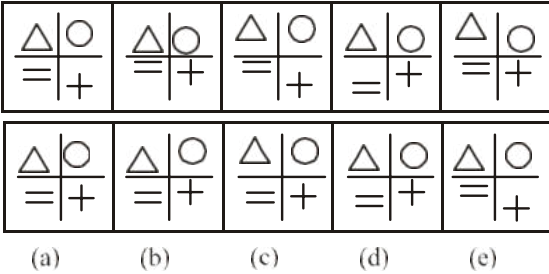


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154. 

(a) (b) (c) (d) (e)

155. 

(a) (b) (c) (d) (e)

**DIRECTIONS (Qs. 156-160) :** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

Read both the statements and Give answer

- (a) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
  - (b) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
  - (c) if the data either in statement I alone or in statement II alone are sufficient to answer the question.
  - (d) if the data in both the statements I and II together are not sufficient to answer the question.
  - (e) if the data in both the statements I and II together are necessary to answer the question.
156. What does 'pit' mean in a certain code language ?  
**I** 'ja na pit sod' means 'beautiful bunch of flowers' in that code language.  
**II** 'na sod pa tok' means 'huge-bunch of twigs' in that code language.
157. Who scored highest among A, B, C, D, and E ?  
**I** B scored more than D, but not as much as C.  
**II** E scored more than C but not more than A.
158. Among five colleagues, A, B, C, D and E who is the highest salary earner ?  
**I** B's salary is less than the sum of the salaries of A and C, but more than the sum of salaries of E and D.  
**II** A's salary is more than that of both E and D but less than that of C who ranks second in the descending order of their salaries.
159. In a row of boys facing South who is immediate left to Ramakant ?  
**Statements :**

- I** Suresh is immediate right to Chandrakant, who is fourth to the right of Ramakant.
  - II** Suresh is third to the right of Ramakant and Naresh is second to the right of Suresh.
160. How many girls are taller than Samir in his class ?  
**I** When students of Samir's class are ranked in descending order of their height, Samir's rank is 17th from the top among all the students and 12th among boys.  
**II** Samir's rank from the bottom on the basis of height among boys is 18th and among all students is 29th.

## Marketing Aptitude/ Computer Knowledge

161. Traditional marketing style involves  
(a) Telemarketing (b) Digital Marketing  
(c) Indirect Marketing (d) Direct Marketing  
(e) None of these
162. In marketing POS\_\_\_\_\_.  
(a) Preparation for Sales  
(b) Point of Superiority  
(c) Point of Sales  
(d) Primary Outlook of Salesmen  
(e) Position of Sales
163. Niche Market means a\_\_\_\_\_.  
(a) free market (b) social market  
(c) equity market (d) capital market  
(e) specified market for a target group
164. Qualities essential in good marketing are \_\_\_\_\_.  
(a) aggressiveness (b) pushy  
(c) perseverance (d) politeness  
(e) Only (c) and (d)
165. Market Research is needed for  
(a) deciding market area  
(b) deciding the right product  
(c) making proper marketing decisions  
(d) deciding sales timings  
(e) All of these
166. Marketing communication has the objective of \_\_\_\_\_.  
(a) Building awareness (b) Stimulating action  
(c) Both [a] and [b] (d) Selling goods  
(e) None of the above
167. Power in marketing channels is now with\_\_\_\_\_.  
(a) Distributor (b) Manufacturer  
(c) Retailer (d) Wholesaler  
(e) Consumer
168. If Marketing is done effectively,\_\_\_\_\_ is not required  
(a) Advertisement (b) Publicity  
(c) Market Research (d) Market Segmentation  
(e) None of these
169. Relationship Marketing is useful for  
(a) trade between relatives  
(b) trade between sister concerns  
(c) cross-selling of products  
(d) preparing a list of relatives  
(e) There is no such term as Relationship Marketing

170. Networking helps in marking Marketing Function  
 (a) a difficult task  
 (b) a laborious task  
 (c) an easier task  
 (d) Networking is worthless in Marketing  
 (e) Networking has a partial role
171. A DSA helps in \_\_\_\_\_.  
 (a) Boosting direct sales  
 (b) Boosting sales through internet  
 (c) Strong Indirect Marketing  
 (d) Effective Telemarketing  
 (e) All of these
172. Mark the incorrect statement  
 (a) marketing has no relevance for public sector banks  
 (b) marketing has no relevance in Private Sector Banks  
 (c) marketing has no relevance in Foreign Banks  
 (d) All of these  
 (e) None of these
173. Marketing is required in banks due to  
 (a) globalisation (b) computerisation  
 (c) larger population (d) government policies  
 (e) None of these
174. Online Marketing is the function of which of the following ?  
 (a) Purchase Section (b) Production Department  
 (c) IT Department (d) Designs Section  
 (e) A collective function of all staff
175. Customisation is useful for  
 (a) Designing customer specific products  
 (b) Call centres  
 (c) Publicity  
 (d) Motivating the staff  
 (e) Cold calls
176. The key challenge to market-driven strategy is  
 (a) Selling maximum products  
 (b) Employing maximum DSAs  
 (c) Delivering superior value to customers  
 (d) Being rigid to changes  
 (e) Adopting short-term vision
177. Effective selling skills depends on  
 (a) Size of the sales team  
 (b) Age of the sales team  
 (c) Peer strength  
 (d) Knowledge level of the sales team  
 (e) Educational level of the sales team
178. Generation of sales leads can be improved by  
 (a) Being very talkative  
 (b) Increasing personal and professional contacts  
 (c) Being passive  
 (d) Engaging Recovery Agents  
 (e) Product designs
179. A Market Plan is  
 (a) Performance Appraisal of marketing staff  
 (b) Company Prospectus  
 (c) Documented marketing strategies  
 (d) Business targets  
 (e) Call centre
180. Marketing channels mean  
 (a) Delivery objects (b) Sales targets  
 (c) Delivery outlets (d) Delivery boys  
 (e) Sales teams
181. A repair for a known software bug, usually available at no change on the Internet, is called a (n)  
 (a) version (b) patch  
 (c) tutorial (d) FAQ  
 (e) None of these
182. A Website address is a unique name that identifies a specific \_\_\_\_\_ on the web.  
 (a) Web browser (b) Web site  
 (c) PDA (d) link  
 (e) None of these
183. What is the process of copying software programs from secondary storage media to the hard disk called?  
 (a) configuration (b) download  
 (c) storage (d) upload  
 (e) installation
184. What characteristic of read-only memory (ROM) makes it useful ?  
 (a) ROM information can be easily updated.  
 (b) ROM provides very large amounts of inexpensive data storage.  
 (c) Data in ROM is nonvolatile, that is , it remains there even without electrical power.  
 (d) ROM chips are easily swapped between different brands of computer.  
 (e) None of these
185. Which of the following is true ?  
 (a) Byte is a single digit in a binary number.  
 (b) Bit represents a grouping of digital numbers  
 (c) An eight-digit binary number is called a byte.  
 (d) An eight-digit binary number is called a bit.  
 (e) None of these
186. A device that connects to a network without the use of cables is said to be  
 (a) distributed (b) wireless  
 (c) centralized (d) open source  
 (e) None of these
187. The \_\_\_\_\_, also called the Web, contains billions of documents.  
 (a) World Wide Web (b) HTTP  
 (c) Web Portal (d) Domain  
 (e) None of these
188. In database, a field is a  
 (a) label  
 (b) table of information  
 (c) group of related records  
 (d) category of information  
 (e) None of these
189. Computers send and receive data in the form of \_\_\_\_\_ signals  
 (a) analog (b) digital  
 (c) modulated (d) demodulated  
 (e) All of these



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190. Where are programs and data kept while the processor is using them?  
 (a) Main memory (b) Secondary memory  
 (c) Disk memory (d) Program memory  
 (e) None of these
191. In order to Save an .existing document with a different name you need to  
 (a) Retype the document and give it a different name  
 (b) Use the Save as .. command  
 (c) Copy and paste the original document to a new document and then-save  
 (d) Use Windows Explorer to copy the document to a different location and-then rename it  
 (e) None of these
192. are lists of commands that appear on the screen.  
 (a) GUIs (b) Icons  
 (c) Menus (d) Windows  
 (e) None of these
193. The feature in Word auto matically corrects certain spelling, typing, capitalization, or grammar errors.  
 (a) Auto Fix (b) Auto Spell  
 (c) Auto Mark (d) Auto Correct  
 (e) None of these
194. What is the main folder on a storage device called ?  
 (a) platform  
 (b) interface  
 (c) root directory  
 (d) device driver  
 (e) None of these
195. In a spreadsheet, a cell is defined as the  
 (a) intersection of a table and a tuple  
 (b) intersection of a file and a database  
 (c) intersection of a row and column  
 (d) intersection of a field and a record  
 (e) None of these
196. The particular field of a record that uniquely identifies each record is called the  
 (a) key field (b) primary field  
 (c) master field (d) order field  
 (e) None of these
197. \_\_\_\_\_ represents raw facts, whereas \_\_\_\_\_ is data made meaningful.  
 (a) Information, reporting (b) Data, information  
 (c) Information, bits (d) Records, bytes  
 (e) Bits, bytes
198. Information on a computer is stored as  
 (a) analog data (b) digital data  
 (c) modern data (d) watts data  
 (e) None of these
199. A megabyte is actually equal to \_\_\_\_\_ kilobytes.  
 (a) 100 (b) 1000  
 (c) 1024 (d) 1024×1024  
 (e) None of these
200. Underlined text, such as text and folder names is referred to as a  
 (a) icon (b) hyperlink  
 (c) menu (d) source drive  
 (e) None of these

## ANSW ER KEY

|    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | (a) | 21 | (e) | 41 | (a) | 61 | (a) | 81  | (a) | 101 | (c) | 121 | (d) | 141 | (a) | 161 | (d) | 181 | (b) |
| 2  | (b) | 22 | (d) | 42 | (e) | 62 | (d) | 82  | (b) | 102 | (d) | 122 | (d) | 142 | (d) | 162 | (c) | 182 | (d) |
| 3  | (e) | 23 | (e) | 43 | (b) | 63 | (a) | 83  | (b) | 103 | (e) | 123 | (d) | 143 | (d) | 163 | (e) | 183 | (c) |
| 4  | (a) | 24 | (e) | 44 | (a) | 64 | (a) | 84  | (e) | 104 | (e) | 124 | (a) | 144 | (c) | 164 | (e) | 184 | (e) |
| 5  | (a) | 25 | (b) | 45 | (d) | 65 | (b) | 85  | (b) | 105 | (b) | 125 | (e) | 145 | (d) | 165 | (e) | 185 | (c) |
| 6  | (e) | 26 | (a) | 46 | (a) | 66 | (e) | 86  | (c) | 106 | (c) | 126 | (b) | 146 | (a) | 166 | (c) | 186 | (b) |
| 7  | (b) | 27 | (c) | 47 | (c) | 67 | (c) | 87  | (b) | 107 | (a) | 127 | (e) | 147 | (c) | 167 | (e) | 187 | (a) |
| 8  | (c) | 28 | (c) | 48 | (a) | 68 | (a) | 88  | (a) | 108 | (b) | 128 | (e) | 148 | (d) | 168 | (b) | 188 | (b) |
| 9  | (d) | 29 | (d) | 49 | (e) | 69 | (c) | 89  | (b) | 109 | (d) | 129 | (a) | 149 | (e) | 169 | (c) | 189 | (b) |
| 10 | (a) | 30 | (d) | 50 | (c) | 70 | (b) | 90  | (e) | 110 | (a) | 130 | (a) | 150 | (e) | 170 | (c) | 190 | (a) |
| 11 | (d) | 31 | (c) | 51 | (b) | 71 | (b) | 91  | (a) | 111 | (c) | 131 | (b) | 151 | (c) | 171 | (c) | 191 | (b) |
| 12 | (a) | 32 | (d) | 52 | (d) | 72 | (c) | 92  | (b) | 112 | (d) | 132 | (c) | 152 | (d) | 172 | (d) | 192 | (a) |
| 13 | (c) | 33 | (d) | 53 | (e) | 73 | (a) | 93  | (c) | 113 | (b) | 133 | (d) | 153 | (a) | 173 | (a) | 193 | (b) |
| 14 | (a) | 34 | (c) | 54 | (c) | 74 | (a) | 94  | (c) | 114 | (a) | 134 | (a) | 154 | (e) | 174 | (c) | 194 | (c) |
| 15 | (a) | 35 | (a) | 55 | (c) | 75 | (d) | 95  | (d) | 115 | (d) | 135 | (c) | 155 | (c) | 175 | (a) | 195 | (c) |
| 16 | (a) | 36 | (d) | 56 | (b) | 76 | (a) | 96  | (b) | 116 | (d) | 136 | (b) | 156 | (d) | 176 | (c) | 196 | (a) |
| 17 | (e) | 37 | (e) | 57 | (b) | 77 | (e) | 97  | (a) | 117 | (b) | 137 | (d) | 157 | (e) | 177 | (d) | 197 | (b) |
| 18 | (a) | 38 | (d) | 58 | (a) | 78 | (b) | 98  | (d) | 118 | (d) | 138 | (c) | 158 | (b) | 178 | (b) | 198 | (b) |
| 19 | (b) | 39 | (e) | 59 | (c) | 79 | (e) | 99  | (c) | 119 | (b) | 139 | (d) | 159 | (d) | 179 | (c) | 199 | (c) |
| 20 | (e) | 40 | (a) | 60 | (d) | 80 | (d) | 100 | (d) | 120 | (c) | 140 | (e) | 160 | (a) | 180 | (c) | 200 | (b) |

# ANSWERS & EXPLANATIONS

41. (a) Replace 'Bye' by 'By'.
42. (e) All are correct.
43. (b) Replace 'desicions' by 'decisions'.
44. (a) Replace 'Traditionall' by 'traditionally'.
45. (d) Replace 'forrests' by 'forests'.
56. (b) substitute *has* for *are*.
57. (b) replace *should* by *will*.
58. (a) *sale* should come in place of *selling*
59. (c) earned.
60. (d) replace *since* with *from*.
71. (b) Since is usually followed by a time expression ('last year', 'this morning', '4 o'clock' etc) or by a clause in the simple past tense. Use the present perfect or the past perfect in the other clause. Use for when you state the length of time that something has been or had been happening. Ex: We have known each other for ten years (NOT since ten years).
81. (a)  $\sqrt[3]{13824} \times \sqrt{?} = 864$   
 $\sqrt[3]{24 \times 24 \times 24} \times \sqrt{?} = 864$   
 $\Rightarrow 24 \times \sqrt{?} = 864 \Rightarrow \sqrt{?} = \frac{864}{24}$   
 $\therefore ? = 36 \times 36 = 1296$
82. (b)  $(91)^2 + (41)^2 - \sqrt{?} = 9858$   
 $\Rightarrow 8281 + 1681 - \sqrt{?} = 9858$   
 $\Rightarrow \sqrt{?} = 9962 - 9858 = 104$   
 $\therefore ? = 104 \times 104 = 10816$
83. (b)  $? = 4900 \div 28 \times 444 \div 12$   
 $\Rightarrow ? = 175 \times 37$   
 $\Rightarrow ? = 6475$
84. (e) 125% of 260 + ?% of 700 = 500  
 $\Rightarrow ?\% \text{ of } 700 = 500 - 125\% \text{ of } 260$   
 $\Rightarrow ?\% \text{ of } 700 = 175$   
 $\therefore ? = \frac{175 \times 100}{700} = 25$
85. (b)  $3\frac{7}{11} + 7\frac{3}{11} \times 1\frac{1}{2} = \frac{40}{11} + \frac{80}{11} \times \frac{3}{2} = \frac{160}{11} = 14\frac{6}{11}$   
 $\frac{0.207}{0.207} \quad \frac{0.207}{0.207} \quad \frac{0.2070}{0.2070}$
86. (c) Given Expression =  $\frac{0.0023}{23} = \frac{0.0001}{0.0001} = \frac{0.0001}{0.0001} = 2070$ .
87. (b)  $? = 1.05\% \text{ of } 2500 + 2.5\% \text{ of } 440$   
 $\Rightarrow ? = \frac{1.05}{100} \times 2500 + \frac{2.5}{100} \times 440$   
 $\Rightarrow ? = \frac{2625}{100} + \frac{1100}{100}$   
 $\Rightarrow ? = \frac{3725}{100} = 37.25$
88. (a)  $? = \frac{17 \times 4 + 4^2 \times 2}{90 \div 5 \times 12}$   
 $\Rightarrow ? = \frac{68 + 16 \times 2}{18 \times 12}$   
 $\Rightarrow ? = \frac{68 + 32}{216}$   
 $\Rightarrow ? = \frac{100}{216} = \frac{25}{54}$
89. (b)  $\frac{87}{5} \times \frac{37}{8} - ? = \frac{375}{8}$   
 $\Rightarrow ? = \frac{3219}{40} - \frac{375}{8}$   
 $= \frac{3219 - 1875}{40} = \frac{1344}{40}$   
 $= \frac{168}{5} = 33\frac{3}{5}$
90. (e)  $\frac{250 \times 136}{100} + \frac{550 \times ?}{100} = 670$   
 $\Rightarrow 340 + 5.5 \times ? = 670$   
 $\Rightarrow 5.5 \times ? = 670 - 340 = 330$   
 $\Rightarrow ? = \frac{330}{5.5} = 60$
91. (a)  $3889 + 12.952 - ? = 3854.002$   
or  $? = 3889 + 12.952 - 3854.002 = 47.95$
92. (b)  $(25)^? = (5 \times 5 \times 5 \times 5 \times 5 \times 5)^4 \times (5 \times 5)^6 \div (5)^2$   
 $= (25 \times 25 \times 25)^4 \times (25)^6 \div (25)^1$   
 $= (25^3)^4 \times (25)^6 \div 25^1 = (25)^{12} \times (25)^6 \div (25)^1$   
 $= \frac{12+6-1}{(25)} = \frac{17}{(25)}$   
 $\therefore ? = 17$
93. (c)  $? = \frac{28 \times 5 - 15 \times 6}{7^2 + \sqrt{256} + (13)^2}$   
 $\Rightarrow ? = \frac{140 - 90}{49 + 16 + 169}$   
 $\Rightarrow ? = \frac{50}{234} = \frac{25}{117}$
94. (c)  $1.5 \times 0.025 + (?)^2 = 0.1 \Rightarrow (?)^2 = 0.1 - 1.5 \times 0.025$   
 $\Rightarrow (?)^2 = 0.1 - 0.0375 \Rightarrow ? = \sqrt{0.0625} = 0.25$

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95. (d) Given Expression =  $\frac{(a-b)^2 + (a+b)^2}{(a+b)} = \frac{2(a^2 + b^2)}{(a+b)} = 2$

96. (b)  $? = \frac{(10008.99)^2}{10009.001} \times \sqrt{3589} \times 0.4987$

$= (10009)^2 \times \sqrt{3600} = 0.50$

$= 10009 \times 60 \times 0.50 \approx 300000$

97. (a)  $196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.01 \times 4.001 \times 4.999 \times 4.999$   
 $= (196.1)^3 \times 4 \times ?$

or  $4 \times ? = 4.01 \times 4.001 \times 4.999 \times 4.999$  or  $? = 4 \times 5 \times 5 = 100$

98. (d)  $Q \ 12.25 \times ? \times 21.6 = 3545.64$

$Q \ ? = \frac{3545.64}{264.6} = 13.4 \approx 13$

99. (c) Let  $x$  be there in place of question mark so,  $x\%$  of  $45.999 \times 16\%$  of  $83.006 = 116.073$ .

We take  $\frac{x}{100} \times 46 \times \frac{16}{100} \times 83 = 116$

$x \times 0.46 \times 13.28 = 116$

or  $x \times 6.11 = 116$

$\Rightarrow x = 18.98 \approx 19$ .

100. (d)  $? = \frac{1.69 \times 17.64}{2.7} = 11.04 \approx 11$

101. (c)  $\begin{array}{ccccccccc} 3 & 23 & 43 & 63 & 83 & 103 \\ | & | & | & | & | & | \\ +20 & +20 & +20 & +20 & +20 & +20 \end{array}$

102. (d)  $\begin{array}{ccccccc} 1 & 9 & 25 & 49 & 81 & 121 & 169 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ 1^2 & 3^2 & 5^2 & 7^2 & 9^2 & 11^2 & 13^2 \end{array}$

103. (e) Pattern of the series would be as follows

$5 \times 1 + 1 = 6$

$6 \times 2 + 2 = 14$

$14 \times 3 + 3 = 45$

$\therefore 45 \times 4 + 4 = 184$

104. (e) The pattern of the number series is:

$7 \times 1 + 1 = 8$

$8 \times 2 + 2 = 18$

$18 \times 3 + 3 = 57$

$57 \times 4 + 4 = 232$

105. (b) Can you see that the pattern is

$1^2, 2^3, 3^2, 4^3, 5^2, 6^3, 7^2$

106. (c) No. of people who prefer flute = 11% of 60,000

$= \frac{11}{100} \times 60000 = 6600$

2100 people be less from the people who prefer flute.

Therefore,  $6600 - 2100 = 4500$

Required percentage =  $\frac{4500}{60000} \times 100 = 7.5\%$

107. (a) Total number of people who prefer either Sarod or Guitar = 14% of 60000 + 22% of 60000

$\Rightarrow 8400 + 13200 = 21600$

Total number of people of who prefer violin or Sitar = 20% of 60000 + 14% of 60000

$\Rightarrow 12000 + 8400 = 20400$

Required difference =  $21600 - 20400 = 1200$

108. (b) Required number 14% of 60000 =  $\frac{14}{100} \times 60000 = 8400$

109. (d) No. of people who prefer piano = 9% of 60000 = 5400

According to question,  $16\frac{2}{3}\%$  no. of the people who

prefer piano would go with flute.

Therefore,  $\frac{50}{3}\%$  of 5400 = 900

Hence, the required percentage

$= \frac{900 + 11\% \text{ of } 60000}{60000} \times 100$

$= \frac{900 + 6600}{60000} \times 100 = 12.5\%$

110. (a) No. of people who prefer guitar = 22% of 60000 = 13200  
 No. of people who prefer Flute or Piano = (11 + 9)% of 60000 = 12000

Required difference =  $13200 - 12000 = 1200$ .

111. (c) Let the number be  $10x + y$  where  $x > y$ .

According to the question,

$x + y = 15$

and  $x - y = 3$

Solving both the equations,

$x = 9, y = 6$

$\therefore x \times y = 9 \times 6 = 54$

112. (d) Total cost price =  $200 \times 10 = \text{` } 2000$

Total selling price =  $12 \times 195 = \text{` } 2340$

$\therefore \text{Profit per cent} = \frac{2340 - 2000}{2000} \times 100 = 17\%$

113. (b) Let the CP of the shoes be  $\text{` } x$ .

$\therefore 2033 - x = x - 1063$

$\Rightarrow 2x = 2033 + 1063 = 3096$

$\Rightarrow x = \frac{3096}{2} = \text{` } 1548$

114. (a) Saving percentage =  $(100 - 55)\% = 45\%$

If the income of Ajay be  $\text{` } x$ , then,

$\frac{45 \times x}{100} = 27000$

$\Rightarrow x = \frac{27000 \times 100}{45} = \text{` } 60000$

115. (d) Let total number of students in college A =  $3x$   
 and total number of students in college B =  $4x$   
 After 50 more students join college A

$$\text{New Ratio} = \frac{3x+50}{4x} = \frac{5}{6}$$

$$\Rightarrow 18x + 300 = 20x \Rightarrow 2x = 300$$

$$\Rightarrow x = \frac{300}{2} = 150$$

Total number of students in college  
 $B = 4x = 4 \times 150 = 600$

116. (d) Let S be the sum of ages of 60 boys

$$\text{Then, } 12 = \frac{S}{60} \quad \dots (1)$$

$$\text{New average A} = \frac{S-14+12.5}{60} = \frac{S}{60} - \frac{1.5}{60}$$

$$= 12 - 0.025 = 11.975$$

117. (b) Let the usual speed of the aeroplane be x km/h.

$$\text{Then, } \frac{1500}{x} - \frac{1}{2} = \frac{1500}{x+250}$$

$$\frac{1500}{x} - \frac{1500}{x+250} = \frac{1}{2} \Rightarrow \frac{1500x + 750000 - 1500x}{x(x+250)} = \frac{1}{2}$$

$$\Rightarrow 750000 = x^2 + 250x \text{ or } x^2 + 250x - 750000 = 0$$

$$\Rightarrow x^2 + 1000x - 750x - 750000 = 0$$

$$\Rightarrow (x+1000)(x-750) = 0 \Rightarrow x = 750, -1000$$

Speed cannot be negative  
 We get x = 750 km/h

118. (d) Part of the tank filled by the three pipes working

$$\text{simultaneously in one hour is} = \frac{1}{5} + \frac{1}{6} - \frac{1}{12} = \frac{17}{60}$$

i.e. it takes  $\frac{60}{17}$  hours to fill up the tank completely.

$$\text{Now, } \frac{1}{2} \text{ of the tank is filled with all the pipes open,}$$

$$\text{simultaneously together in } \frac{60}{17} \times \frac{1}{2} = 1\frac{13}{17} \text{ hours}$$

119. (b) Let the sum of money be x.

$$\text{Now, } 8x = x \left( 1 + \frac{r}{100} \right)^3$$

$$\text{or, } \left( 1 + \frac{r}{100} \right)^3 = (2)^3 \text{ or } 1 + \frac{r}{100} = 2$$

Again, let the sum becomes 16 times in n years. Then,

$$16x = x \left( 1 + \frac{r}{100} \right)^n$$

$$\Rightarrow 16 = 2^n \text{ or } 2^4 = 2^n \text{ or } n = 4$$

120. (c) Let Principal = P

$$P \left( 1 + \frac{10}{100} \right)^3 - P = 993 \Rightarrow \left( \frac{11}{10} \times \frac{11}{10} \times \frac{11}{10} - 1 \right) P = 993$$

$$\Rightarrow \frac{(1331-1000)}{1000} P = 993 \text{ or, } P = \frac{993 \times 1000}{331} = 3000$$

$$\therefore \text{ Simple interest} = \left( \frac{3000 \times 3 \times 10}{100} \right) = 900$$

121. (d)

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 7 | 9 | 2 | 5 | 6 | 8 |
| A | Q | F | J | L | D | M | P | N |

Thus,

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 3 | 9 | 6 | 8 | 2 | 4 |
| Q | L | P | N | D | F |

122. (d) 4, 45, 453, 4531, 45312, 45, 453, 4531

The next coded digit will be 1. Hence, the instruction Run will come next.

123. (d) The new letter sequence is EDRPSEISNO.

The seventh letter from the right is P.

D E P R E S S I O N

1 2 3 4 5 6 7 8 9 10

↪ ↪ ↪ ↪ ↪

124. (a) na pa ka so → birds fly very high  
 ri so la pa → birds are very beautiful  
 ti me ka bo → the parrots could fly  
 Thus high is coded as na.

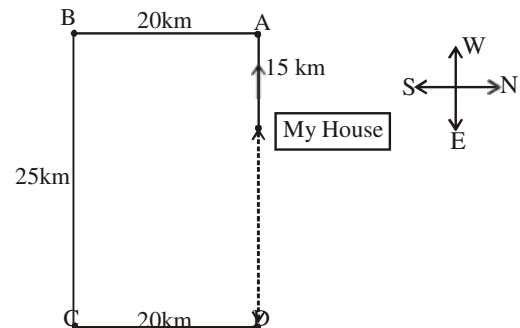
125. (e) 48 Q 12 R 10 P 8 W 4 = ?

$$\Rightarrow ? = 48 \div 12 \times 10 - 8 + 4$$

$$\Rightarrow ? = 4 \times 10 - 8 + 4$$

$$\Rightarrow ? = 40 - 8 + 4 = \boxed{36}$$

126. (b)



From the above diagram required distance  
 $= 25 - 15 = 10 \text{ km.}$

127. (e) The colour of human blood is red. Here white means red. Therefore white is our answer.

Do not opt for black because red means black implies that black is called red.

128. (e) P S I C H O L A Z Y

0 1 2 3 4 5 6 7 8 9

875.50 = ZAO.OP

129. (a) Conclusion I is the conversion of first statement, hence I follows. But II does not follow because A + A = A i.e.

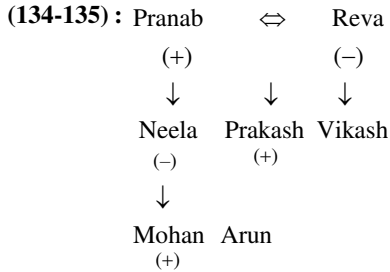
All leaders are good orators but not vice versa.

130. (a) A + A = A; i.e. All terrorists are human.

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131. (b) I does not follow. But II follows because it is conversion of the first statement.



136. (b)  $B > V \dots (i); K < C \dots (ii); C \leq B \dots (iii)$   
No relationship can be find out between  $V$  and  $C$ .  
Hence I does not follow.  
From (ii) and (iii),  $B > K$ . Hence II follows.
137. (d)  $K > T \dots (i); S = K \dots (ii); T \leq R \dots (iii)$   
Neither relationship can be established.
138. (c)  $U = M \dots (i); P \geq U \dots (ii); M \geq B \dots (iii)$   
Combining, we get  $P \geq U = M \geq B \Rightarrow P \geq B$   
 $\Rightarrow P = B$  or  $P > B$
139. (d)  $L \geq N \dots (i); J \leq P \dots (ii); P \geq L \dots (iii)$   
Neither relationship can be established.
140. (e)  $H \geq G \dots (i); D > E \dots (ii); H = E \dots (iii)$   
Combining, we get  $D > E = H \geq G$   
 $\Rightarrow D > H$  and  $G < D$

**For (Qs. 141 to 145)**

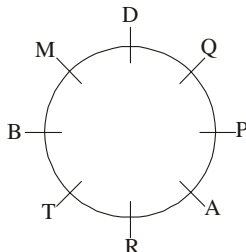
The given information is summarised in a table as follows :

| Teachers | Subjects         |             |
|----------|------------------|-------------|
|          | Compulsory       | Optional    |
| A        | History          | English     |
| B        | History          | Chemistry   |
| C        | History          | Mathematics |
| D        | (Female) English | History     |
| E        | Physics          | Mathematics |
| F        | Mathematics      | Physics     |

141. (a) History is the compulsory subject of C.
142. (d) D is a female member in the group.
143. (d) The compulsory subject of F (Mathematics) is the optional subject of C.
144. (c) E has physics and Mathematics as his two subjects.
145. (d) A, B and C all have History as the compulsory subjects.

**For Q. 146-150.**

Sitting arrangements of 8 persons would be as follows :



146. (a) From the above arrangements, M is to the immediate right of D.
147. (c) From the above arrangements, T is second to the right of M.
148. (d) From the above arrangements, P is second to the left of D.
149. (e) From the above arrangements, P and R are the immediate neighbours of A.
150. (e) From the above arrangements, in the following pairs, P is immediate to the right of A.
151. (c) The elements move one side CW and two of the adjacent elements interchange places alternately. The half-shaded circle rotates  $90^\circ$  CW,  $180^\circ$ ,  $180^\circ$ ,  $90^\circ$ ... and so on. The quarter shaded circle rotates by  $180^\circ$  and  $90^\circ$  ACW.
152. (d) The whole figure rotates by  $45^\circ$  ACW in each step. One and two arcs forming petals are added in alternate steps. One arc is added on the ACW side.
153. (a) The half-shaded squares move one step ACW and rotate by  $90^\circ$  ACW. A new square on the ACW side gets shaded and its shading is  $90^\circ$  ACW to its counterpart on the CW side.
154. (e) In each step a new arrow is added while the elements rotate by  $90^\circ$  CW. The pre-existing elements shift in a cyclic order.
155. (c) In each step one element remains static while other three shift closer or away from the axis.
156. (d) **From I:** ja na pit sod = beautiful bunch of flowers  
**From II:** na sod pa tok = huge bunch of twigs  
Even using I & II together, we can't determine the code of *pit*. It may be *beautiful* or *flowers*.
157. (e) **From I:**  $C > B > D$  **From II:**  $A > E > C$   
Combining both, we get,  $A > E > C > B > D$   
Hence, both statements together are necessary.
158. (b) **From I:**  $(A + C) > B > (E + D)$  We can't answer the question on the basis of statement I. We need some more information.  
**From II:**  $C > A > (E + D)$  And 'C' has the second position in descending order of their salaries. Hence B is the highest salary earner.
159. (d) **From I:** Ramakant \_\_\_ Chandrakant Suresh  
Hence, cannot be determined.  
**From II:** Ramakant \_\_\_ Suresh \_\_\_ Naresh  
Hence, cannot be determined.  
The combination of both statements is not possible.
160. (a) **From I:**  $(17 - 12) = 5$  girl students are taller than Samir  
**From II:**  $(29 - 18) = 11$  girl students are shorter than Samir. But, from II alone it is not known how many girls are there in the class.



# SBI Clerk Solved Paper-2012

Held on June-2012

(Based on Memory)

Time : 135 minutes

Max. Marks : 200

## General Awareness

- Which of the following agencies/organisations has put economic sanctions on Syria?  
(a) OPEC (b) NATO  
(c) World Bank (d) European Union  
(e) G-8
- Who among the following was elected unanimously as the Secretary General of the UNO for the second term ?  
(a) Ellen Johnson Sirleaf (b) Nelson Mandela  
(c) Hillary R Clinton (d) Jacob Mathew  
(e) Ban-Ki moon
- International Atomic Energy Agency (IAEA) has decided to begin New Round of Negotiations with which of the following nations as it is not satisfied with the previous rounds of discussions?  
(a) Iraq (b) India  
(c) Japan (d) Iran  
(e) Germany
- As decided by UNESCO the 'International Literacy Day' is observed on which of the following days every year ?  
(a) 8th September (b) 18th March  
(c) 28th March (d) 18th September  
(e) None of these
- As per decision taken by the European Union and IMF, which of the following countries will receive a fresh assistance of 100 billion Euro by the year 2014 ?  
(a) Italy (b) Greece  
(c) Portugal (d) Spain  
(e) Belgium
- 'Kovvada' a town in Andhra Pradesh was in news recently as \_\_\_\_\_.  
(a) a nuclear plant is being developed there  
(b) Maruti has decided to build a small car plant there  
(c) RBI is going to establish a New Note Printing Press there  
(d) an earthquake hit the town in which lot of people died  
(e) it is the place selected for developing a new Space Research Centre
- Which of the following is India's new rating index developed by Ministry of Finance ?  
(a) CECA (b) CRIS  
(c) SENSEX (d) TIEA  
(e) RTGS
- Very often we read terms 'Perform, Achieve and Trade' (PAT) in newspapers/magazines these days. PAT is related to which of the following fields ?  
(a) Energy Efficiency (b) Indira Awas Yojana  
(c) Mid Day Meal Scheme (d) Bharat Nirman  
(e) National Old Age Pension Scheme
- Which of the following organizations/agencies has decided to establish a National Innovation Foundation (NIF) to encourage early stage innovations in India?  
(a) University Grants Commission  
(b) Confederation of Indian Industry (CII)  
(c) Department of Science & Technology, Government of India  
(d) Atomic Energy Commission (AEC)  
(e) Council for Industrial and Scientific Research (CSIR)
- Which of the following countries is trying to get membership of European Union ?  
(a) Myanmar (b) Brazil  
(c) Croatia (d) Italy  
(e) South Africa
- The General Elections took place in which of the following countries in January 2012 in which Muslim-Brotherhood party won with crushing majority?  
(a) Lebanon (b) Libya  
(c) Syria (d) Egypt  
(e) Iran
- Web based complaints redressal system 'SCORES' is launched by which of the following organizations/agencies?  
(a) Ministry of Corporate Affairs  
(b) SEBI  
(c) RBI  
(d) State Bank of India  
(e) IBA
- Which of the following countries has decided to free political prisoners and pardon them as a measure to adopt democratic reforms?  
(a) Myanmar (b) Bangladesh  
(c) Mali (d) Afghanistan  
(e) Sri Lanka
- Which of the following books is written by Satish Gujral?  
(a) A General and His Army  
(b) A Bend in the River  
(c) A Secular Agenda  
(d) A Brush with Life  
(e) Best and the Brightest
- Sri Jatin Das who was awarded Padma Bhushan in January 2012, is a famous \_\_\_\_\_.  
(a) Painter (b) Cine actor  
(c) Film Director (d) Sportsman  
(e) Social Worker

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16. The economy in which there is a mixture of public sector and private sector both, is called \_\_\_\_\_.  
(a) Closed economy (b) Mixed economy  
(c) Open economy (d) Free trade economy  
(e) Public economy
17. Asian Development Bank (ADB) has agreed to give a loan of US\$ 500 million to India to construct which of the following?  
(a) Roads in Naxal hit areas  
(b) Railway track in North Eastern states  
(c) Railway phataks at unmanned crossings  
(d) Six bridges over river Kali which is known as 'Sorrow of Bihar'  
(e) School buildings in villages of Odisha
18. Robert Rock of England recently won an International sports event held in Abu Dhabi. He is a well known \_\_\_\_\_.  
(a) Golf player (b) Badminton player  
(c) Lawn Tennis player (d) Table Tennis player  
(e) Chess player
19. Which of the following teams won the Ranji Trophy Final played in January 2012 ?  
(a) Tamil Nadu (b) Punjab  
(c) Maharashtra (d) Rajasthan  
(e) Haryana
20. As per new estimate what is per capita income in India ? (per annum)  
(a) ` 30,000/-  
(b) ` 40,000/-  
(c) More than ` 50,000/- but less than ` 58,000/-  
(d) ` 60,000/-  
(e) More than ` 75,000/- but less than ` 1 Lac
21. The Reserve Bank of India does NOT decide the \_\_\_\_\_.  
(a) Rate of Repo and Reverse Repo  
(b) Marginal Standing Facility Rates  
(c) Bank Rate  
(d) Rate of Dearness Allowance to Govt. Employees  
(e) Statutory Liquidity Ratio
22. What does the letter 'P' denote in the term 'PAN' as used in financial transactions ?  
(a) Primary (b) Partial  
(c) Permanent (d) Provisional  
(e) Public
23. Daniel Ortega is the present President of \_\_\_\_\_.  
(a) Norway (b) Nicaragua  
(c) Thailand (d) Belarus  
(e) None of these
24. Which of the following films was adjudged Best Film at the 57th Filmfare Award Function held in January 2012 ?  
(a) Dirty picture (b) Rock Star  
(c) Stanley Ka Dabba (d) Don 2  
(e) Zindagi Na Milegi Dobara
25. Which of the following nations has said that it will block Strait of Hormuz if prevented from sale of oil and petroleum to other countries?  
(a) Iraq (b) Kuwait  
(c) Oman (d) Saudi Arabia  
(e) Iran
26. Thomas Cup is associated with the game of \_\_\_\_\_.  
(a) Golf (b) Cricket  
(c) Badminton (d) Football  
(e) Lawn Tennis
27. MCX is the index of which of the following stock exchanges of India ?  
(a) National Stock Exchange  
(b) Bombay Stock Exchange  
(c) Delhi Stock Exchange  
(d) Kolkata Stock Exchange  
(e) Multi Commodity Stock Exchange
28. Ma Ying-jeou is the present President of \_\_\_\_\_.  
(a) Thailand (b) Hong Kong  
(c) Taiwan (d) Myanmar  
(e) Fiji
29. Which of the following is the currency used in Brazil ?  
(a) Dollar (b) Euro  
(c) Real (d) Pessó  
(e) Franc
30. Which of the following will be the venue of the World Athletic Championship to be organized in 2017 ?  
(a) Tokyo (b) Paris  
(c) New York (d) London  
(e) Mumbai
31. Which of the following terms is used in Botany ?  
(a) Recession (b) Dumping  
(c) Barter System (d) Cartel  
(e) Biennial
32. 'Nirmal Gram Puraskar' is an incentive to promote \_\_\_\_\_.  
(a) Good attendance in schools  
(b) Total Sanitation in Villages  
(c) Free and Compulsory Education  
(d) Awareness towards women Empowerment  
(e) All of these
33. Which of the following is NOT a Financial Institute/ Agency?  
(a) IRDA (b) BCCI  
(c) FPSB (d) SEBI  
(e) CAG
34. Which of the following books is written by Chetan Bhagat?  
(a) A General and His Army (b) A Possible India  
(c) Bitter Sweet (d) China Passage  
(e) Revolution 2020
35. Which of the following is NOT a famous cricket ground/ stadium for international matches ?  
(a) Eden Gardens (b) Green Park  
(c) Wankhede Stadium (d) Chhapauk Stadium  
(e) Jantar Mantar Ground
36. Which of the following combinations of players and the games they play is NOT correct ?  
(a) V V S Laxman - Cricket  
(b) Saina Nehwal - Badminton  
(c) Sania Mirza - Golf  
(d) Abhinav Bindra - Shooting  
(e) Vishwanathan Anand - Chess

37. Which of the following awards is given for exemplary contribution in the area of science & technology?
- Arjun Award
  - Kalidas Samman
  - Dronacharya Award
  - Dada Saheb Phalke Award
  - Shanti Swarup Bhatnagar Award
38. Which of the following terms is NOT used in banking/finance?
- Public Debt
  - Plasma
  - Joint Venture
  - Net Demand & Time Liability
  - Treasury Bill
39. Who among the following was awarded Sahitya Akademi Award for the year 2011 ?
- Anand Kumar
  - Srilal Shukla
  - Mrinal Pandey
  - Su. Venkatesan
  - Vasudevan Nair
40. Victoria Azarenka won Australian Open Women's Single Tennis Tournament 2012 by defeating .....
- Maria Sharapova
  - Vera Zvonareva
  - Svetlana Kuznetsova
  - Bethanie Mattek Sands
  - Sania Mirza

### General English

**DIRECTIONS (Qs. 41-55) :** Read the following passage carefully and answer the questions given below it. Certain words/phrases have been printed in bold to help you locate them while answering some of the questions.

Sheela and Jairam were a **poor** old couple. Their only **possession** was one cow. Once, Jairam fell very sick. Soon all their money was used up in buying medicines and they realised that they would have to sell their cow in order to bear the rest of the expenses. Sheela decided to go to the market and sell the cow. She set off, leading the cow by a rope. One the way, she met four young men. They were the local bullies who enjoyed teasing and tormenting old people. When they saw old Sheela with her cow, they decided to play a trick. One of them sneaked up behind her, untied the cow and tied a goat in its place. Sheela had been walking immersed in thought, worried about Jairam. Suddenly she heard a goat bleat behind her. She turned around and was surprised to see that her cow had **vanished**. She was leading a goat to the market. The four bullies came up to her and said, "There is magic in the air these days. See, it turned your cow into a goat. "Poor Sheela walked on with the goat. After a little while, the boys untied the goat and tied a rooster in its place. The rooster crowed and Sheela was surprised again. The goat had turned into a rooster in its place. The rooster crowed and Sheela was surprised again. The goat had turned into a rooster! The four bullies shouted, "Magic in the air, Grandma." She resumed walking with the rooster in tow. After a few minutes the boys crept up again, untied the rooster and tied a log of wood in its place. A few moments later Sheela realised that

she was dragging a log of wood with a rope. Again, the bullies shouted, "Magic in the air, Grandma." After a few minutes, the boys untied the log of wood too and ran away with it. When Sheela finally reached the market, she found that she had nothing but a rope in her hand. She came back home **dejected** as she had lost the cow. She told Jairam the whole story. He immediately understood what had happened. "Make chapatti, vegetable and kheer for lunch tomorrow," he said. "Cook for atleast four people. I will come home with some guests. As soon as they come you must say, 'I cooked what the rabbit told me. Come, eat your lunch.' Leave everything else to me," Jairam reassured her. The next morning Jairam went and borrowed two identical rabbits from a friend. He left one at home, tied the other one with a string and started walking towards the market with it. On the way he too met the four bullies. 'Hey Grandfather !' they yelled, "your wife's cow vanished yesterday. Where are you taking this rabbit now ?" Jairam sighed sadly and said, "This rabbit is like my son. It obeys everything I say. But now I am sick and we need money, so I am going to sell it in the market." The four bullies were surprised when they heard this. "Does it really understand what you say, Grandfather ?" they asked. Jairam replied, "Of course it does. Here, watch me." Jairam turned towards the rabbit and said, "Hop home and tell Sheela to make chapattis, vegetable and kheer for four people." Then he untied the string and let the rabbit hop away. He turned towards the four boys and said, "Come home and have lunch with me." When they reached his house his wife welcomed them and said, "I cooked what the rabbit asked me to cook. Come, eat your lunch." She served the chapattis, vegetable and kheer to all of them. The four bullies were stunned when they saw the rabbit sitting in the corner. They told Jairam, "We will buy your rabbit." Jairam pretended to think and said, "It is very precious to me." The four bullies immediately offered him a higher price. Jairam showed some reluctance. The moment he **agreed** to sell the rabbit they paid him the money and left with the rabbit immediately. The four bullies decided to test the rabbit's abilities. They had been blackmailing a landlord for money. So they told the rabbit, "Go and tell the landlord to bring us the money within ten minutes." The rabbit hopped off. They waited for an hour but the landlord did not come with the money. They marched to his house and yelled, "Give us the money and our rabbit." The landlord had been waiting for a chance to teach these bullies a lesson. He ordered his strongest bodyguard to give them a good **thrashing**. Bleeding and bruised they went back to Jairam's house and said, "You fooled us. Return our money at once." Jairam simply smiled and said, "The money has disappeared! There is magic in the air."

41. Why did Sheela and Jairam decide to sell the cow ?
- They had spent all their money on Jairam's sickness and needed more money
  - Sheela wanted to buy a rooster and they needed money for that
  - They were fed up of the four bullies and wanted to teach them a lesson
  - They wanted to invite the four bullies for lunch and needed money for buying the ingredients
  - They owed money to the landlord

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42. Why was Jairam reluctant to sell the rabbit?
- He only pretended to be reluctant in order to fool the bullies
  - He was fond of the little rabbit and did not want to sell it to the bullies
  - He wanted to gift the rabbits to the landlord
  - He knew that the bullies would not take good care of the rabbit
  - He wanted to sell the rabbit in the market and get a better price for it
43. Which of the following may be an appropriate title to the passage?
- Magic in the air
  - Never steal a cow
  - The strongest bodyguard
  - The smart bullies
  - The obedient rabbit
44. What did Sheela do after reaching the market empty handed?
- Determined to earn money, she managed to sell the rope that she was left with
  - She returned home dejected and narrated the whole incident to her husband
  - She bought two rabbits and devised a plan to get back at the bullies
  - She went to the landlord and complained about the bullies
  - She went home and cooked lunch for her husband and herself
45. What did the four bullies tie to Sheela's rope immediately after untying the cow?
- A log of wood
  - A rooster
  - A rabbit
  - A goat
  - Not mentioned in the passage
46. Why were the four bullies surprised when they were talking to Jairam?
- They knew that Jairam was sick and had not expected to see him
  - They had not expected Jairam to invite them for lunch
  - They could not believe that the rabbit could understand and obey Jairam
  - They knew that Jairam did not own a rabbit and were surprised to see him with one
  - They could not believe that Jairam knew the rabbit's language
47. What did the four bullies see when they reached Jairam's house?
- They saw that two rabbits were sitting in the corner
  - They saw that Sheela had not prepared any lunch
  - They saw the cow they had stolen from Sheela on the previous day
  - They saw the log of wood they had tied to Sheela's rope
  - They saw that the same rabbit was sitting in the corner
48. Arrange the following incidents in a chronological order as they occurred in the passage.
- Jairam and Sheela needed money
  - The four bullies sent the rabbit to the landlord
  - Sheela cooked chapattis, vegetable and kheer
  - The four bullies tied a log of wood to the rope
- ADBC
  - ACDB
  - ADCB
  - DABC
  - DACB
49. Which of the following is true according to the passage ?
- The four boys liked to help old people
  - Jairam asked Sheela to cook lunch for atleast four people
  - The rabbit could understand Jairam
  - Jairam could not trick the four boys
  - None is true
50. What did the landlord do when the four bullies went to his house and yelled ?
- He got scared and immediately gave them the money
  - He ran away and hid in the market
  - He complained to Jairam about this
  - He ordered his strongest bodyguard to thrash them
  - He offered them lunch in order to calm them down
- 
- DIRECTIONS (Qs. 51-53) :** Choose the word/group of words which is most similar in the meaning to the word/group of words printed in bold as used in the passage.
- 
- 51. Thrashing :**
- Garbage
  - Beating
  - Shouting
  - Warning
  - Rejection
- 52. Possession :**
- Control
  - Power
  - Custody
  - Keeping
  - Belonging
- 53. Vanished :**
- Gone missing
  - Was found
  - Was killed
  - Was left behind
  - Had exchanged
- 
- DIRECTIONS (Qs. 54-55) :** Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.
- 
- 54. AGREED:**
- Decided
  - Arranged
  - Accepted
  - Declined
  - Fixed
- 55. DEJECTED:**
- Happy
  - Hurried
  - Crestfallen
  - Slowly
  - Angrily
- 
- DIRECTIONS (Qs. 56-60) :** Each sentence below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank which best fits the meaning of the sentence as a whole.
-

56. The students \_\_\_\_\_ not reach on time \_\_\_\_\_ of the transport strike.  
 (a) can - as (b) could - because  
 (c) may - account (d) will - despite  
 (e) should - for
57. They were \_\_\_\_\_ to vacate that house as \_\_\_\_\_ as possible.  
 (a) asked - soon (b) ordered - easy  
 (c) shown - early (d) told - later  
 (e) found - fast
58. The teacher \_\_\_\_\_ the concept by \_\_\_\_\_ practical examples.  
 (a) showed - telling (b) gave - speaking  
 (c) liked - citing (d) found - looking  
 (e) explained - quoting
59. The manager told us \_\_\_\_\_ Ramesh was very anxious \_\_\_\_\_ the meeting.  
 (a) about - in (b) that - before  
 (c) like - during (d) the - for  
 (e) said - after
60. She did not tell \_\_\_\_\_ that she \_\_\_\_\_ attended the party.  
 (a) someone - have (b) no one - has  
 (c) him - not (d) her - can  
 (e) anyone - had
68. She was just looking outside the window when a beautiful bird **caught the eye**.  
 (a) catch the eye (b) eye catching  
 (c) caught her eye (d) catch her eyes  
 (e) No correction required
69. They **sent out** the invitations last evening.  
 (a) send out (b) sending out  
 (c) sent at (d) sending in  
 (e) No correction required
70. He had to **bear the brunt** of his father's mistakes.  
 (a) bear the burnt (b) bear the burns  
 (c) bear a brunt (d) bear and burn  
 (e) No correction required

**DIRECTIONS (Qs. 71-80) :** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage, against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Emperor Akbar was fond of (71) tricky questions to Birbal. One day he asked Birbal what he would (72) if he were given a choice between justice and a gold coin. "The gold coin," said Birbal. Akbar was (73) aback. He had known Birbal for many years and he knew that Birbal was a just person. Then how could he choose the gold coin. "You would prefer a gold coin to justice ?" He asked, incredulously. "Yes," said Birbal. The other courtiers were amazed by Birbal's (74) of idiocy. For years they had been trying to discredit Birbal in the emperor's eyes but without success and now the man had gone and (75) it himself ! They could not believe their good fortune. "I would have been dismayed if even the lowliest of my servants had said this," continued the emperor. "But coming from you it's shocking - and sad. I did not (76) you were so debased ! I never expected this from you. How could you be so shallow ?"

One (77) for what one does not have, Your Majesty !" said Birbal, quietly. "You have (78) to it that in our country justice is available to everybody. So as justice is already available to me and as I'm always (79) of money I said I would choose the gold coin." The emperor laughed. He thought to himself, 'I should have known that Birbal would come up with a witty reply as always.' He was so pleased with Birbal's reply that he gave him (80) one but a thousand gold coins.

**DIRECTIONS (Qs. 61-65) :** Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is "No Error" the answer is (e). (Ignore errors of punctuation if any.)

61. The shepherd counted (a) / his sheep and found (b) / that one of (c) / them is missing. (d) / No Error (e)
62. The teacher were (a) / impressed by her performance (b) / and asked her to (c) / participate in the competition. (d) No Error (e)
63. She asked her (a) / son for help her (b) / find a place to bury (c) / the gold ornaments (d) No Error (e)
64. The painter was (a) / ask to paint a (b) / picture of the king, (c) / sitting on his throne (d) No Error (e)
65. The story was (a) / about how an (b) / intelligent man had saving (c) / himself from being robbed (d) No Error (e)

**DIRECTIONS (Qs. 66-70) :** Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold in the following sentence to make the sentence grammatically meaningful and correct ? If the sentence is correct as it is and 'No correction is required', mark (e) as the answer.

66. They are **yet to decided** about buying the new furniture.  
 (a) still decide (b) yet to decision  
 (c) yet to decide (d) still decided  
 (e) No correction required
67. Rohan's mother was **feed up of** his laziness.  
 (a) fed up in (b) fed off  
 (c) feeds up of (d) fed up of  
 (e) No correction required
71. (a) showing (b) asking  
 (c) naming (d) finding  
 (e) telling
72. (a) look (b) said  
 (c) think (d) choose  
 (e) find
73. (a) pushed (b) fallen  
 (c) pulled (d) sent  
 (e) taken
74. (a) idea (b) display  
 (c) reply (d) place  
 (e) showing



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75. (a) speak (b) thought  
(c) done (d) create  
(e) told
76. (a) felt (b) said  
(c) know (d) accept  
(e) saw
77. (a) asks (b) chooses  
(c) look (d) find  
(e) wish
78. (a) sure (b) put  
(c) shown (d) seen  
(e) made
79. (a) no (b) rich  
(c) short (d) poor  
(e) plenty
80. (a) but (b) not  
(c) and (d) so  
(e) only

### Quantitative Aptitude

**DIRECTIONS (Qs. 81-95) :** What value should come in the place of question mark (?) in the following questions ?

81.  $3.6 + 36.6 + 3.66 + 0.36 + 3.0 = ?$   
(a) 44.22 (b) 77.22  
(c) 74.22 (d) 47.22  
(e) None of these
82.  $23 \times 45 \div 15 = ?$   
(a) 69 (b) 65  
(c) 63 (d) 71  
(e) None of these
83.  $4\frac{5}{6} + 7\frac{1}{2} - 5\frac{8}{11} = ?$   
(a)  $2\frac{10}{33}$  (b)  $6\frac{20}{33}$   
(c)  $2\frac{20}{33}$  (d)  $6\frac{10}{33}$   
(e) None of these
84.  $\frac{210}{14} \times \frac{17}{15} \times ? = 4046$   
(a) 202 (b) 218  
(c) 233 (d) 227  
(e) None of these
85.  $83\% \text{ of } 2350 = ?$   
(a) 1509.5 (b) 1950.5  
(c) 1905.5 (d) 1590.5  
(e) None of these
86.  $\sqrt{1089} + 3 = (?)^2$   
(a) 5 (b) 6  
(c) 3 (d) 8  
(e) 4
87.  $96 + 32 \times 5 - 31 = ?$   
(a) 223 (b) 225  
(c) 229 (d) 221  
(e) None of these
88.  $? \div 36 = (7)^2 - 8$   
(a) 1426 (b) 1449  
(c) 1463 (d) 1476  
(e) None of these
89.  $\sqrt{8281} = ?$   
(a) 89 (b) 97  
(c) 93 (d) 91  
(e) 83
90.  $(63)^2 - (12)^2 = ?$   
(a) 3528 (b) 3852  
(c) 3582 (d) 3825  
(e) None of these
91.  $1\frac{4}{5} + 3\frac{3}{5} = ? - 4\frac{3}{10}$   
(a)  $9\frac{7}{10}$  (b)  $7\frac{7}{10}$   
(c)  $9\frac{3}{10}$  (d)  $7\frac{9}{10}$   
(e) None of these
92.  $17 \times 19 \times 4 \div ? = 161.5$   
(a) 8 (b) 6  
(c) 7 (d) 9  
(e) None of these
93.  $1798 \div 31 \times ? = 348$   
(a) 3 (b) 6  
(c) 4 (d) 5  
(e) None of these
94.  $(9.8 \times 2.3 + 4.46) \div 3 = (3)^?$   
(a) 3 (b) 9  
(c) 5 (d) 2  
(e) None of these
95.  $43\% \text{ of } 600 + ?\% \text{ of } 300 = 399$   
(a) 45 (b) 41  
(c) 42 (d) 47  
(e) None of these
96. What will be the compound interest on a sum of ` 7500/- at 4 p.c.p.a. in 2 years ?  
(a) ` 618/- (b) ` 612/-  
(c) ` 624/- (d) ` 606/-  
(e) ` 621/-
97. In how many different ways can the letters of the word 'CREAM' be arranged ?  
(a) 720 (b) 240  
(c) 360 (d) 504  
(e) None of these
98. The circumference of a circle is 792 meters. What will be its radius ?  
(a) 120 meters (b) 133 meters  
(c) 145 meters (d) 136 meters  
(e) None of these

99. Cost of 36 pens and 42 pencils is ₹ 460/-. What is the cost of 18 pens and 21 pencils ?  
 (a) ₹ 230/- (b) ₹ 203/-  
 (c) ₹ 302/- (d) ₹ 320/-  
 (e) None of these
100. The ratio of the ages of A and B seven years ago was 3 : 4 respectively. The ratio of their ages nine years from now will be 7 : 8 respectively. What is B's age at present ?  
 (a) 16 years (b) 19 years  
 (c) 28 years (d) 23 years  
 (e) None of these
101. In how many years will ₹ 4600 amount to ₹ 5428 at 3 p.c.p.a. simple interest ?  
 (a) 3 (b) 5  
 (c) 6 (d) 4  
 (e) None of these
102. What will be the average of the followings set of scores ? 59, 84, 44, 98, 30, 40, 58  
 (a) 62 (b) 66  
 (c) 75 (d) 52  
 (e) 59
103. The sum of three consecutive odd numbers is 1383. What is the largest number ?  
 (a) 463 (b) 49  
 (c) 457 (d) 461  
 (e) None of these

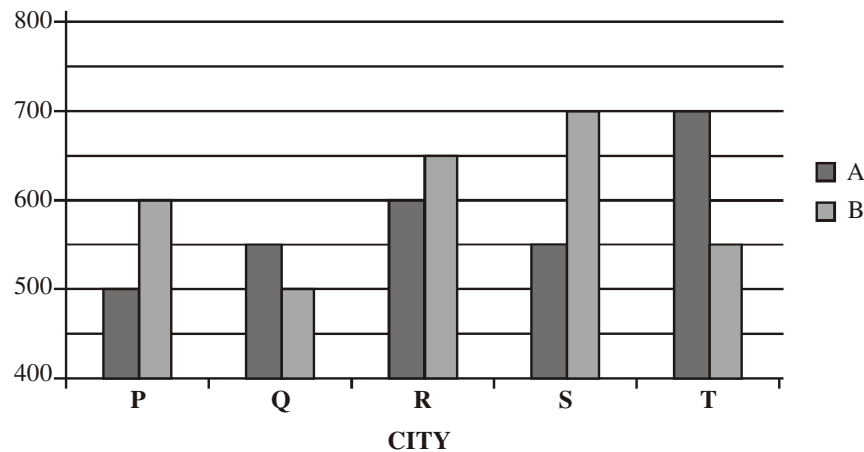
**DIRECTIONS (Qs. 104-106) :** Study the information given below and answer the questions that follow :

An article was bought for ₹ 5600. Its price was marked up by 12%. Thereafter it was sold at a discount of 5% on the market price.

104. What was the market price of the article ?  
 (a) ₹ 6207/- (b) ₹ 6242/-  
 (c) ₹ 6292/- (d) ₹ 6192/-  
 (e) ₹ 6272/-
105. What was the percent profit on the transaction ?  
 (a) 6.8% (b) 6.3%  
 (c) 6.4% (d) 6.6%  
 (e) 6.2%
106. What was the amount of discount given ?  
 (a) ₹ 319.6 (b) ₹ 303.6  
 (c) ₹ 306.3 (d) ₹ 313.6  
 (e) ₹ 316.9
107. The area of a rectangle is 1209 square meters. Its length measures 39 meters. How much is its perimeter ?  
 (a) 122 meters  
 (b) 134 meters  
 (c) 148 meters  
 (d) 144 meters  
 (e) None of these

**DIRECTIONS (Qs. 108-112) :** Study the following graph carefully and answer the questions that follow :

The graph given below represents the number of users of two broadband services A and B across 5 cities P, Q, R, S and T.



108. What is the total number of users of brand B across all five cities together ?  
 (a) 2700 (b) 3000  
 (c) 3100 (d) 2900  
 (e) 3200
109. The number of users of brand A in city T is what percent of the number of users of brand B in City Q ?  
 (a) 150 (b) 110  
 (c) 140 (d) 160  
 (e) 120
110. What is the average number of users of brand A across all five cities together ?  
 (a) 560 (b) 570  
 (c) 580 (d) 590  
 (e) 550
111. What is the difference between the total number of users of Brand A and B together in city R and the total number of users of brand A and B together in city P ?  
 (a) 170 (b) 140  
 (c) 130 (d) 150  
 (e) 160

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112. What is the respective ratio of the number of users of brand A in city P to the number of users of brand B in city S ?  
 (a) 5 : 7 (b) 4 : 7  
 (c) 2 : 5 (d) 3 : 4  
 (e) 5 : 6
113. 21 articles were bought for ₹ 6531 and sold for ₹ 9954. How much was the approximate profit percentage per article ?  
 (a) 56% (b) 43%  
 (c) 52% (d) 49%  
 (e) 61%
114. A and B together can complete a particular task in 8 days. If B alone can complete the same task in 10 days, how many days will A take to complete the task if he works alone ?  
 (a) 28 (b) 36  
 (c) 40 (d) 32  
 (e) None of these
115. The cost price of an article is ₹ 1700. If it was sold at a price of ₹ 2006, what was the percentage profit on the transaction ?  
 (a) 18 (b) 12  
 (c) 10 (d) 15  
 (e) 20

**DIRECTIONS (Qs. 116-120) :** What should come in place of the question mark (?) in the following number series ?

116. 1 1 2 6 ? 120  
 (a) 24 (b) 60  
 (c) 100 (d) 30  
 (e) None of these
117. 7 8 16 43 ? 232  
 (a) 204 (b) 107  
 (c) 119 (d) 89  
 (e) None of these
118. 4 13 17 ? 30 39  
 (a) 29 (b) 21  
 (c) 26 (d) 19  
 (e) None of these
119. 982 977 952 827 822 ?  
 (a) 779 (b) 817  
 (c) 797 (d) 697  
 (e) None of these
120. 41472 5184 576 72 8 ?  
 (a) 0 (b) 9  
 (c) 1 (d) 8  
 (e) None of these
121. (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three
122. How many letters are there in the English alphabetical series between second letter of the word which is second from the right and the third letter of the word which is third from the left of the given words?  
 (a) One (b) Two  
 (c) Three (d) Four  
 (e) Five
123. If in each of the given words, each of the consonants is changed to previous letter and each vowel is changed to next letter in the English alphabetical series, in how many words thus formed will no vowels appear ?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) More than three
124. If the last alphabet in each of the words is changed to the next alphabet in the English alphabetical order, how many words having two vowels (same or different vowels) will be formed ?  
 (a) None (b) One  
 (c) Two (d) Three  
 (e) Four
125. If the given words are arranged in the order as they would appear in a dictionary from left to right, which of the following will be fourth from the left ?  
 (a) WIT (b) BAR  
 (c) URN (d) ELF  
 (e) TOP
126. Veena walked 5m towards north, took a left turn and walked 7 m. She took a left turn again and walked 8m before taking a left turn and walking 7 m. She then took a final left turn and walked 1 m before stopping. How far is Veena from the starting point ?  
 (a) 3m (b) 6m  
 (c) 4m (d) 2m  
 (e) 7m
127. In a certain code IDEAS is written as HEDBR and WOULD is written as VPTMC. How will RIGHT be written in the same code ?  
 (a) QJHIS (b) QJFGS  
 (c) SHHGU (d) QJFIU  
 (e) QJFIS

### Reasoning Ability

**DIRECTIONS (Qs. 121-125) :** Following questions are based on five words given below :

WIT BAR URN ELF TOP

(The new words formed after performing the mentioned operations may or may not necessarily be meaningful English words)

121. If in each of the words, all the alphabets are arranged in English alphabetical order within the word, how many words will NOT begin with a vowel ?  
 (a) Only two people paid a price less than the price paid by B

**DIRECTIONS (Qs. 128-130) :** Study the following information to answer the given question.

Amongst five friends, A, B, C, D and E, each bought a mobile phone for a different price. A paid more than both C and E. Only B paid more than D. E did not pay the minimum amount. E paid ₹ 8,000 for the phone.

128. Which of the following is true with regard to the given information?  
 (a) Only two people paid a price less than the price paid by B

- (b) E paid more than C and B  
(c) No one paid more amount than that paid by C  
(d) Amongst the five friends, C is most likely to have paid ` 9,000 for the mobile phone  
(e) None is true
129. If D paid ` 17,000 more than the price paid by E, which of the following could possibly be the amount paid by A ?  
(a) ` 35,000/- (b) ` 16,000/-  
(c) ` 7,500/- (d) ` 26,000  
(e) ` 6,500
130. Who paid the third highest amount for the mobile phone ?  
(a) A (b) B  
(c) C (d) D  
(e) E

**DIRECTIONS (Qs. 131-135) :** In each question below are two/three statements followed by two conclusions numbered I and II. You have to take the two/three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Give answer (a) if **only** conclusion I follows.

Give answer (b) if **only** conclusion II follows.

Give answer (c) if **either** conclusion I or conclusion II follows.

Give answer (d) if **neither** conclusion I nor conclusion II follows.

Give answer (e) if **both** conclusion I and conclusion II follow.

**131. Statements : All kites are birds. All aeroplanes are kites. No bird is a fish.**

**Conclusions :** I. No fish is a kite.

II. All aeroplanes are birds.

**132. Statements : Some wires are fires. All fires are tyres.**

**Conclusions :** I. Atleast some tyres are wires.

II. Some fires are definitely not wires.

**133. Statements : No clip is a pin. All badges are pins.**

**Conclusions :** I. No badge is a clip.

II. All pins are badges.

**134. Statements : No colour is a paint. No paint is a brush.**

**Conclusions :** I. No colour is a brush.

II. All brushes are colours.

**135. Statements : All stars are planets. All planets are galaxies.**

**Conclusions :** I. All galaxies are planets.

II. All stars are galaxies.

**DIRECTIONS (Qs. 136-140) :** Study the following arrangement carefully and answer the questions given below :

B U B D C E D B D E U B **A D C B E A C D A E B**  
A U A C D B C A C

136. How many such pairs of alphabets are there in the series of alphabets given in BOLD (A to E) in the above arrangement each of which has as many letters between them (in both forward and backward directions) as they have between them in the English alphabetical series ?

- (a) None (b) One  
(c) Two (d) Three  
(e) More than three
137. Which of the following is the eighth to the left of the twentieth from the left end of the above arrangement ?  
(a) C (b) E  
(c) U (d) B  
(e) A
138. How many meaningful words can be formed with the alphabets which are first, second, fifth and sixth from the left end of the above arrangement ?  
(a) None (b) One  
(c) Two (d) Three  
(e) More than three
139. How many such consonants are there in the above arrangement each of which is immediately preceded by a vowel and also immediately followed by a consonant ?  
(a) One (b) Two  
(c) Three (d) Four  
(e) More than Four
140. If all as are dropped from the above arrangement, which of the following will be eleventh from the right end of the above arrangement ?  
(a) E (b) C  
(c) D (d) U  
(e) None of these

**DIRECTIONS (Qs. 141-145) :** Study the following information to answer the given questions :

Eight people are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In row-1 P, Q, R and S are seated (but not necessarily in the same order) and all of them are facing south. In row-2 A, B, C and D are seated (but not necessarily in the same order) and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

R sits second to the right of P. A is an immediate neighbour of the person who faces R. Q sits second to left of the person who faces A. Only one person sits between B and C. C does not face P. C does not sit at any of the extreme ends of the line.

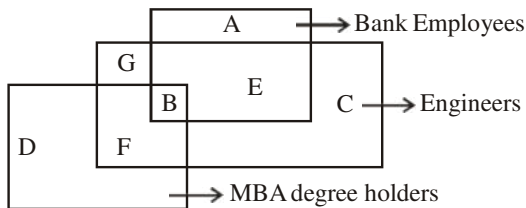
141. Four of the following five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group ?  
(a) A (b) P  
(c) R (d) B  
(e) S
142. Who amongst the following faces B ?  
(a) P (b) Q  
(c) R (d) S  
(e) Cannot be determined

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143. Which of the following is true regarding S ?  
 (a) S sits exactly between R and P  
 (b) S sits second to left of Q  
 (c) P is an immediate neighbour of S  
 (d) D is an immediate neighbour of the person who faces S  
 (e) None is true
144. Who amongst the following faces Q ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) Cannot be determined
145. Who amongst the following faces the person who sits exactly between B and C ?  
 (a) P (b) Q  
 (c) R (d) S  
 (e) Cannot be determined

**DIRECTIONS (Qs. 146-150) :** Each of the questions given below is based on the given diagram. The diagram shows three figures each representing Engineers, MBA degree holders and Bank employees.

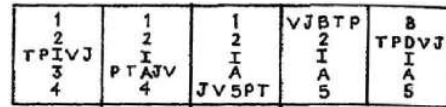


146. Which of the following does the group B represent in the above diagram ?  
 (a) All such engineers who are not MBA degree holders  
 (b) Such bank employees who are engineers but not MBA degree holders  
 (c) All such engineers who are MBA degree holders but are not bank employees  
 (d) All such MBA degree holders who are not bank employees  
 (e) All such bank employees who are engineers as well MBA degree holders
147. Which of the following groups represents all such Bank employees who are not MBA degree holders ?  
 (a) G, A, E and C (b) A, E and C  
 (c) A and E (d) Only A  
 (e) A and C
148. Which of the following groups represents all such persons who are MBA degree holders but are neither engineers nor bank employees ?  
 (a) Only G (b) Only D  
 (c) D and G (d) Only C  
 (e) Not represented in the diagram

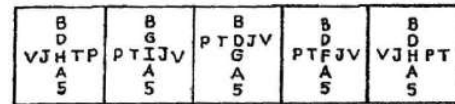
149. Which of the following represents such engineers who are MBA degree holders but not bank employees ?  
 (a) G and B (b) Only F  
 (c) D (d) G  
 (e) None of these
150. Which of the following correctly represents such engineers who are neither bank employees nor MBA degree holders?  
 (a) Only G (b) C and B  
 (c) A and D (d) C and G  
 (e) Only C

**DIRECTIONS (Qs. 151-160) :** In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued ?

**151. Problem Figures**

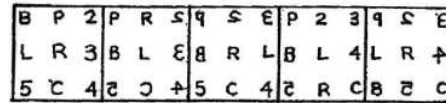


**Answer Figures**

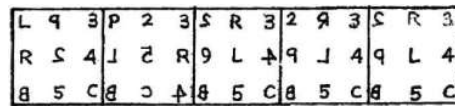


(a) (b) (c) (d) (e)

**152. Problem Figures**

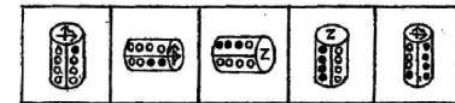


**Answer Figures**

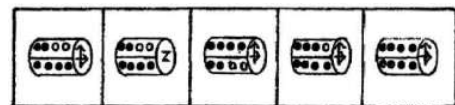


(a) (b) (c) (d) (e)

**153. Problem Figures**



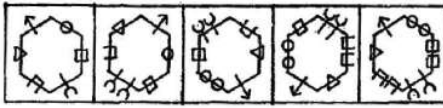
**Answer Figures**



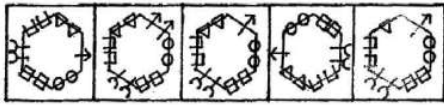
(a) (b) (c) (d) (e)



154. Problem Figures

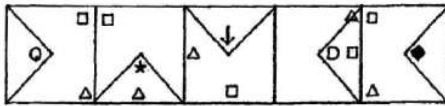


Answer Figures

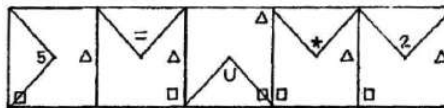


(a) (b) (c) (d) (e)

155. Problem Figures

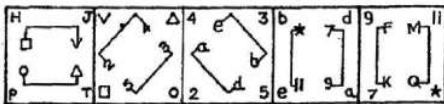


Answer Figures

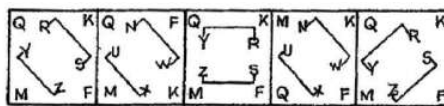


(a) (b) (c) (d) (e)

156. Problem Figures

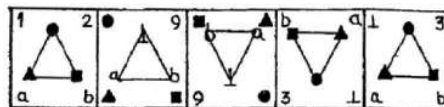


Answer Figures

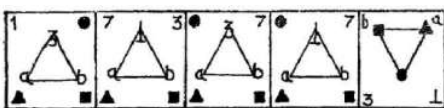


(a) (b) (c) (d) (e)

157. Problem Figures

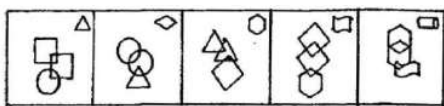


Answer Figures

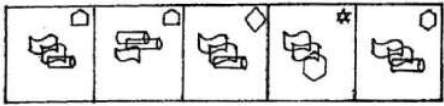


(a) (b) (c) (d) (e)

158. Problem Figures

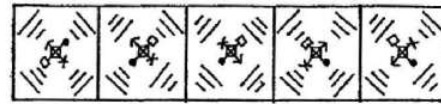


Answer Figures

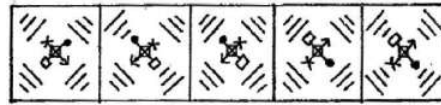


(a) (b) (c) (d) (e)

159. Problem Figures

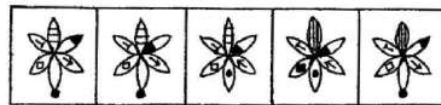


Answer Figures

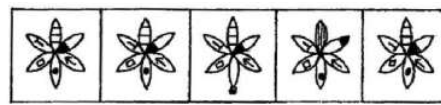


(a) (b) (c) (d) (e)

160. Problem Figures



Answer Figures



(a) (b) (c) (d) (e)

Marketing Aptitude/  
Computer Knowledge

161. Marketing is the function of \_\_\_\_\_
  - (a) Only Sales persons
  - (b) Only counter staff
  - (c) Only qualified persons
  - (d) Top Bosses
  - (e) A collective function of all staff
162. The performance of a sales person depends on \_\_\_\_\_
  - (a) Ability and willingness of the sales person
  - (b) Incentives paid
  - (c) Size of the sales team
  - (d) Team leader's attitude
  - (e) His aggressive nature
163. Good marketing strategy envisages good and proper \_\_\_\_\_
  - (a) Product distribution
  - (b) Networking of branches
  - (c) High Pricing
  - (d) Placement of counter staff
  - (e) Relationship management
164. Service Marketing is resorted to in \_\_\_\_\_
  - (a) All MNCs
  - (b) All production houses
  - (c) Industrial units
  - (d) Insurance companies and banks
  - (e) Fish markets
165. Customisation results in \_\_\_\_\_
  - (a) Customer exit
  - (b) Customer retention
  - (c) Customer complaints
  - (d) Better Balance Sheet figures
  - (e) Better technology

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166. Current Accounts are basically meant for \_\_\_\_\_  
 (a) Investment purpose (b) Savings purpose  
 (c) Identity purpose (d) To earn Foreign Exchange  
 (e) Day-to-day needs of one's business
167. The sole aim of marketing is to \_\_\_\_\_  
 (a) Improve the Balance Sheet figures  
 (b) Increase recruitment  
 (c) Increase profits  
 (d) Increase production  
 (e) Increase branch network
168. Aggressive Marketing is necessitated due to \_\_\_\_\_  
 (a) Globalisation  
 (b) Increased competition  
 (c) Increased production  
 (d) Increased job and opportunities  
 (e) Increased staff
169. Value added services means \_\_\_\_\_  
 (a) Substituted products  
 (b) Highly valuable products  
 (c) Old products  
 (d) Extra services in addition to existing ones  
 (e) At par services
170. Savings Accounts can be opened by \_\_\_\_\_  
 (a) All individuals fulfilling KYC norms  
 (b) All tax payers only  
 (c) All individuals above the age of 18  
 (d) All businessmen only  
 (e) All students below the age of 18
171. The best promotional tool in any marketing is \_\_\_\_\_  
 (a) Pamphlets  
 (b) Newsletters  
 (c) Word of mouth publicity  
 (d) Regional Advertisement  
 (e) Viral marketing
172. Market information means \_\_\_\_\_  
 (a) Knowledge level of DSAs  
 (b) Information about marketing staff  
 (c) Information regarding Share market  
 (d) Knowledge of related markets  
 (e) Latest knowledge about technology progress
173. Efficient marketing style requires \_\_\_\_\_  
 (a) Proper planning  
 (b) Good debating skills  
 (c) Arrogant staff  
 (d) Knowledge of many languages  
 (e) Ignorant customers
174. The target group for SME loans is \_\_\_\_\_  
 (a) All SSIs (b) All College Professors  
 (c) All students (d) All Nurses  
 (e) All salaried persons
175. Market segmentation means grouping \_\_\_\_\_  
 (a) The sales teams  
 (b) The customers as per their needs and tastes  
 (c) Selling arrangements  
 (d) The counter staff  
 (e) The back-office staff
176. Target group means \_\_\_\_\_  
 (a) All employers (b) All sales persons  
 (c) Intended buyers (d) All industries  
 (e) Call Centre persons
177. SME means \_\_\_\_\_  
 (a) Selling and Marketing Employees  
 (b) Sales and Mergers of Entities  
 (c) Small and Micro Entities  
 (d) Small and Medium Enterprises  
 (e) Sales Performance Measurement Program
178. A short term loan is repayable within \_\_\_\_\_  
 (a) 20 years  
 (b) 3 years  
 (c) As per the borrowers' wish  
 (d) As per the guarantor's wish  
 (e) There is no need to repay short term loans
179. "USP" in marketing language means \_\_\_\_\_  
 (a) Uniform Selling Practices  
 (b) Unique Sales Person  
 (c) Unique Selling Proposition  
 (d) Unique Savings Plans  
 (e) Useful Sales Persons
180. An IPO Loan is meant for  
 (a) Meeting personal needs  
 (b) For higher education  
 (c) Medical treatment  
 (d) For starting a new industry  
 (e) For purchase of shares
181. Devices that enter information and let you communicate with the computer are called \_\_\_\_\_.  
 (a) Software (b) Output devices  
 (c) Hardware (d) Input devices  
 (e) Input/Output devices
182. In electronic device, operating under the control of information, that can accept data, process the data, produce output and store the results for future use \_\_\_\_\_.  
 (a) Input (b) Computer  
 (c) Software (d) Hardware  
 (e) None of these
183. What is the function of the Central Processing Unit of a Computer ?  
 (a) Creates invoices  
 (b) Performs calculations and processing  
 (c) Deletes Data  
 (d) Corrupts the data  
 (e) None of these
184. All the characters that a device can use is called its ?  
 (a) Skill Set (b) Character Alphabet  
 (c) Character Codes (d) Keyboard Characters  
 (e) Character Set

185. If your computer keeps rebooting itself, then it is likely that \_\_\_\_\_  
 (a) It has a virus  
 (b) It does not have enough memory  
 (c) There is no printer  
 (d) There has been a power surge  
 (e) It needs a CD-ROM
186. What does RAM stand for ?  
 (a) Read Access Memory  
 (b) Read Anywhere Memory  
 (c) Random Anything Memory  
 (d) Random Access Module  
 (e) Random Access Memory
187. What type of device is a 3½ inch floppy drive ?  
 (a) Input (b) Output  
 (c) Software (d) Storage  
 (e) None of these
188. What utility to you use to transfer files and exchange messages ?  
 (a) Web browsers (b) WWW  
 (c) Email (d) Hptertext  
 (e) search engines
189. Which unit controls the movement of signals between CPU and I/O ?  
 (a) ALU (b) Control Unit  
 (c) Memory Unit (d) Secondary Storage  
 (e) None of these
190. The three main parts of the processor are \_\_\_\_\_  
 (a) ALU, Control Unit and Registers  
 (b) ALU, Control Unit and RAM  
 (c) Cache, Control Unit and Registers  
 (d) Control Unit, Registers and RAM  
 (e) RAM, ROM and CD-ROM
191. Which of the following memory chip is faster ?  
 (a) There is no certainty  
 (b) DRAM  
 (c) SRAM  
 (d) DRAM is faster for larger chips  
 (e) None of these
192. Which of the following does not relate to Input Unit ?  
 (a) If accepts data from the outside world.  
 (b) It converts data into binary code that is understandable by the computer  
 (c) It converts binary data into the human readable form that is understandable to the users.  
 (d) It sends data in binary form to the computer for further processing  
 (e) None of these
193. Which of the following terms is just the connection of networks that can be joined together ?  
 (a) virtual private network (b) LAN  
 (c) intranet (d) extranet  
 (e) internet
194. Tangible, physical computer equipment that can be seen and touched is called \_\_\_\_\_  
 (a) hardware (b) software  
 (c) storage (d) input/output  
 (e) None of these
195. Which of the following is the second largest measurement of RAM ?  
 (a) Terabyte (b) Megabyte  
 (c) Byte (d) Gigabyte  
 (e) Mega Hertz
196. What resides on the motherboard and connects the CPU to other components on the motherboard ?  
 (a) Input Unit (b) System Bus  
 (c) ALU (d) Primary Memory  
 (e) None of these
197. By firmware we understand \_\_\_\_\_  
 (a) physical equipment used in a computer system  
 (b) a set of instructions that causes a computer to perform one or more tasks.  
 (c) the people involved in the computing process.  
 (d) a set of programs that is pre-installed into the read only memory of a computer during the time of manufacturing  
 (e) None of these
198. Supercomputers \_\_\_\_\_  
 (a) are smaller in size and processing capability than mainframe computers  
 (b) are common in majority of households  
 (c) contain thousands of microprocessors  
 (d) are rarely used by researchers due to their lack of computing capacity  
 (e) are of the same size as laptops
199. The cost of a given amount of computing power has \_\_\_\_\_ dramatically with the progress of computer technology.  
 (a) stayed the same  
 (b) changed proportionally with the economy  
 (c) increased  
 (d) fluctuated  
 (e) decreased
200. The basic computer processing cycle consists of \_\_\_\_\_  
 (a) input, processing and output  
 (b) systems and application  
 (c) data, information and applications  
 (d) hardware, software and storage  
 (e) None of these

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| ANSWER KEY |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1          | (d) | 21 | (d) | 41 | (a) | 61 | (d) | 81  | (d) | 101 | (c) | 121 | (b) | 141 | (c) | 161 | (e) | 181 | (e) |
| 2          | (e) | 22 | (c) | 42 | (a) | 62 | (a) | 82  | (a) | 102 | (e) | 122 | (e) | 142 | (a) | 162 | (a) | 182 | (d) |
| 3          | (d) | 23 | (b) | 43 | (a) | 63 | (b) | 83  | (e) | 103 | (e) | 123 | (c) | 143 | (e) | 163 | (e) | 183 | (b) |
| 4          | (a) | 24 | (e) | 44 | (b) | 64 | (b) | 84  | (e) | 104 | (e) | 124 | (a) | 144 | (d) | 164 | (d) | 184 | (d) |
| 5          | (b) | 25 | (c) | 45 | (d) | 65 | (c) | 85  | (b) | 105 | (c) | 125 | (c) | 145 | (b) | 165 | (d) | 185 | (a) |
| 6          | (a) | 26 | (c) | 46 | (c) | 66 | (c) | 86  | (b) | 106 | (d) | 126 | (d) | 146 | (e) | 166 | (e) | 186 | (e) |
| 7          | (b) | 27 | (e) | 47 | (e) | 67 | (d) | 87  | (b) | 107 | (e) | 127 | (e) | 147 | (c) | 167 | (c) | 187 | (d) |
| 8          | (a) | 28 | (c) | 48 | (c) | 68 | (c) | 88  | (d) | 108 | (b) | 128 | (e) | 148 | (b) | 168 | (b) | 188 | (c) |
| 9          | (c) | 29 | (c) | 49 | (b) | 69 | (e) | 89  | (d) | 109 | (c) | 129 | (a) | 149 | (b) | 169 | (d) | 189 | (b) |
| 10         | (c) | 30 | (d) | 50 | (d) | 70 | (e) | 90  | (d) | 110 | (c) | 130 | (a) | 150 | (e) | 170 | (c) | 190 | (a) |
| 11         | (d) | 31 | (d) | 51 | (b) | 71 | (b) | 91  | (e) | 111 | (d) | 131 | (b) | 151 | (d) | 171 | (c) | 191 | (c) |
| 12         | (b) | 32 | (b) | 52 | (e) | 72 | (d) | 92  | (a) | 112 | (a) | 132 | (a) | 152 | (b) | 172 | (c) | 192 | (c) |
| 13         | (a) | 33 | (e) | 53 | (a) | 73 | (e) | 93  | (b) | 113 | (c) | 133 | (a) | 153 | (a) | 173 | (b) | 193 | (e) |
| 14         | (d) | 34 | (e) | 54 | (d) | 74 | (b) | 94  | (e) | 114 | (c) | 134 | (c) | 154 | (e) | 174 | (a) | 194 | (a) |
| 15         | (a) | 35 | (e) | 55 | (c) | 75 | (c) | 95  | (d) | 115 | (a) | 135 | (b) | 155 | (b) | 175 | (b) | 195 | (d) |
| 16         | (b) | 36 | (c) | 56 | (b) | 76 | (c) | 96  | (b) | 116 | (a) | 136 | (e) | 156 | (a) | 176 | (c) | 196 | (b) |
| 17         | (b) | 37 | (e) | 57 | (a) | 77 | (a) | 97  | (e) | 117 | (b) | 137 | (d) | 157 | (d) | 177 | (d) | 197 | (d) |
| 18         | (a) | 38 | (b) | 58 | (e) | 78 | (d) | 98  | (e) | 118 | (b) | 138 | (b) | 158 | (a) | 178 | (b) | 198 | (c) |
| 19         | (d) | 39 | (b) | 59 | (b) | 79 | (c) | 99  | (a) | 119 | (e) | 139 | (d) | 159 | (b) | 179 | (c) | 199 | (b) |
| 20         | (c) | 40 | (a) | 60 | (e) | 80 | (b) | 100 | (d) | 120 | (d) | 140 | (a) | 160 | (d) | 180 | (d) | 200 | (a) |

## ANSWERS & EXPLANATIONS

- (d) The Arab League, European Union, United States and Turkey have all imposed economic sanctions on Syrian individuals and companies. In March, First Lady Asma al-Assad became the latest person connected to the regime to be targeted for sanctions when EU foreign ministers imposed a travel ban and asset freeze on her.
- (e) The current Secretary-General is Ban Ki-moon of South Korea, who took office on 1 January 2007. His first term expired on 31 December 2011. He was re-elected, unopposed, to a second term on 21 June 2011.
- (d) IAEA (International Atomic Energy Agency) has decided to new round of negotiation with Iran.
- (a) International Literacy Day ON September 8
- (a) Andhra Pradesh has decided to speed up the 9,564 MW Kovvada Nuclear Power Park (KNP) project in Ranasthalam block of the north coastal district of Srikakulam. The state issued an order on 27 December to acquire 1,000 hectares (ha) of land from farmers and fishers of the region, ignoring widespread public protests.
- (b) The finance ministry has developed a new sovereign comparative rating method CRIS. The index, called the "Comparative Rating Index for Sovereigns" (CRIS), is based on Moody's ratings and data on the gross domestic product (GDPs) of different nations as given by the International Monetary Fund.
- (a) The Perform Achieve Trade (PAT) is a trading scheme aimed to reduce energy consumption in industries across India using market oriented mechanisms.
- (c) Croatia and Turkey started accession talks on 3 October 2005. Turkey could complete them in 10-15 years, but Croatia is set to join the EU in mid-2013.
- (a) The Securities and Exchange Board of India (Sebi) has initiated SCORES, a centralised Web-based system for lodging and tracking complaints.
- (a) Eminent painter Jatin Das (69) has been chosen for Padma Bhushan awards for 2012.
- (b) **Mixed economy** is an economic system in which both the public and private sector direct the economy, reflecting characteristics of both market economies and planned economies.
- (a) **Robert Rock** (born 6 April 1977) is an English professional golfer
- (c) The per capita income of Indians for the first time crossed the ` 50,000-mark in 2010-11, although using

- current prices as the barometer. According to the revised GDP data for the last financial year, per capita income is estimated to have risen 16.9% to ` 53,331 compared to ` 46,117 in the previous year.
22. (c) **Permanent Account Number (PAN)**
23. (b) Nicaragua President Daniel Ortega
24. (a) **“Zindagi Na Milegi Dobara”** grab 7 most popular awards-Best Film, Best Director, Best Dialogue, Best Supporting Actor (Male), Best Movie (Critics), Best Cinematography and Best Choreography.
26. (c) The **Thomas Cup**, sometimes called the **World Men’s Team Championships**, is an international badminton competition among teams representing member nations of the Badminton World Federation (BWF), the sport’s global governing body. The championships have been conducted every two years since the 1982 tournament, amended from being conducted every three years since the first tournament held in 1948-1949.
27. (e) **Multi Commodity Exchange of India Ltd. (MCX)** (BSE: 534091) is an independent commodity exchange based in India. It was established in 2003 and is based in Mumbai.
30. (d) 16th World Championships in Athletics will be organized in London in 2017
32. (b) Total Sanitation Campaign (TSC) is a comprehensive programme to ensure sanitation facilities in rural areas with the broader goal to eradicate the practice of open defecation.
33. (e) **Comptroller and Auditor General (CAG) of India is not a financial institute.**
36. (c) **Sania Mirza related to tennis.**
37. (e) **The Shanti Swarup Bhatnagar Prize for Science and Technology** is awarded annually by the Council of Scientific and Industrial Research (CSIR) for notable and outstanding research, applied or fundamental, in biology, chemistry, environmental science, engineering, mathematics, medicine and Physics
38. (b) **Plasma** is a state of matter similar to gas in which a certain portion of the particles are ionized.
41. (a) Sheela and Jairam had to sell their cow because they needed money for Jairam’s sickness. They were a very poor old couple.
42. (a) Jairam was pretending to be reluctant to sell the rabbit so that the bullies would realise how precious the rabbit was to him.
43. (a) ‘Magic in the Air’ has been used repeatedly throughout the passage. It is the most appropriate title.
44. (b) She was very upset. So she came back home and told her husband the whole story.
45. (d) The four bullies first tied a goat to Sheela’s rope.
46. (c) The four bullies were surprised because it was different to believe that the rabbit could understand obey Jairam.
47. (e) The four bullies thought it was the same rabbit sitting in a corner.
48. (c) The first event is of the couple being needy as in (A). Among the various things they tie to the rop is a log of wood as in (D). The next given event in terms of the four sentences can be found in (C) where Sheela cooks for the four bullies. Once they buy the rabbit they send it to the landlord to extract money as in (B) and when they reach his house they get good thrashing.
49. (b) Fouram decides to take revenge on the bullies and trick them in the same manner as they had tricked his wife. So he asks her to cook for them.
50. (d) The landlord was so angry that he had the bullies thrashed by his strongest bodyguard.
51. (b) Thrashing means to give a sound beating.
52. (e) In this case possession means belonging.
53. (a) Vanished means had got lost.
54. (d) In this case agreed means to say yes, so the opposite is declined which means to say no.
55. (c) Here dejected means sad or upset which is the same as crest fallen.
58. (e) Obviously the concept has to be explained and practical examples can only be quoted.
60. (e) She would not have told any one that she had attended the party.
61. (d) Since the sentence begins in past tense. It should end in past tense also since it the subject is singular the verb will also be singular. Hence “them *is* missing” should be “them *was* missing”.
62. (a) The teacher that is the subject is singular so “were” will be replaced with “was”.
63. (b) “Son for help her” should be “son to help her”.
64. (b) The verb “ask” will be in the past tense it will become “asked”.
65. (c) “Saving” will be replaced with past tense of the verb “Save” that is saved because it is preceded by had.
66. (c) Since the whole sentence is in the present tense “yet to decided” should be replaced with “yet to decide”.
67. (d) Rohan's mother cannot be feed up. It has no meaning. This should be replaced with fed up of.
68. (c) Since the subject is a female “caught the eye” should be replaced with “caught her eye”.
81. (d)  $3.6 + 36.6 + 3.66 + 0.36 + 3.0 = 47.22$
82. (a)  $23 \times 45 \div 15 = 69$
83. (e)  $4\frac{5}{6} + 7\frac{1}{2} - 8\frac{5}{11} = \frac{29}{6} + \frac{15}{2} - \frac{63}{11}$   
 $= \frac{319 + 495 - 558}{66} = \frac{256}{66} = \frac{128}{33} = 3\frac{29}{33}$
84. (e)  $\frac{210}{14} \times \frac{17}{15} \times ? = 4046$   
 $? = \frac{4046 \times 15 \times 14}{210 \times 17} = 238$
85. (b)  $83\% \text{ of } 2350 = ?$   
 $? = \frac{83 \times 2350}{100} = 1950.50$



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86. (b)  $\sqrt{1089} + 3 = (?)^2$

$$33 + 3 = (6)^2$$

87. (b)  $96 + 32 \times 5 - 31 = 225$

88. (d)  $? \div 36 = (7)^2 - 8$

$$\frac{?}{36} = 49 - 8$$

$$\therefore ? = 36 \times 41$$

$$= 1476$$

89. (d)  $\sqrt{8281} = ?$

$$= 91$$

90. (d)  $(63)^2 - (12)^2 = 3825$

91. (e)  $\frac{9}{4} + \frac{18}{5} = ? - \frac{43}{10}$

$$? = \frac{9}{4} + \frac{18}{5} + \frac{43}{10}$$

$$= \frac{45 + 72 + 86}{20} = \frac{203}{20} = 10 \frac{3}{20}$$

92. (a)  $17 \times 19 \times 4 \div ? = 161.5$

$$\frac{1}{?} = \frac{1615}{10 \times 17 \times 19 \times 4}$$

$$? = 8$$

93. (b)  $1798 \div 31 \times ? = 348$

$$? = \frac{348 \times 31}{1798} = 6$$

94. (d)  $(9.8 \times 2.3 + 4.46) \div 3 = 3^?$

$$27 \div 3 = 3^? \quad 3^2 = 3^?$$

$$\therefore ? = 2$$

95. (d)  $43\% \text{ of } 600 + ?\% \text{ of } 300 = 399$

$$43 \times 6 + 3x = 399$$

$$3x = 141$$

$$x = 47$$

96. (b) Total amount =  $7500 \left(1 + \frac{4}{100}\right)^2$

$$= 7500 \left(\frac{26}{25} \times \frac{26}{25}\right) = 8112$$

$$\text{C I} = \text{Total amount} - \text{sum}$$

$$= 8112 - 7500 = \text{` } 612$$

97. (e) C R E A M

$$1 \ 2 \ 3 \ 4 \ 5$$

$$\text{Required number of ways} = 5!$$

$$= 5 \times 4 \times 3 \times 2 \times 1 = 120$$

98. (e) Circumference = 792

$$2\pi r = 792$$

$$r = \frac{792}{2\pi} = \frac{792 \times 7}{22 \times 2} = 126\text{m}$$

99. (a) Let one pen cost be `x and one pencil cost be `y

$$36x + 42y = 460$$

$$\dots (i)$$

$$18x + 21y = ?$$

$$\text{Divided eq. (i) by 2}$$

$$18x + 21y = 230$$

100. (d) Let the present age of A = x and B = y years

$$\text{According to first condition}$$

$$\frac{x-7}{y-7} = \frac{3}{4} \Rightarrow 4x - 28 = 3y - 21 \Rightarrow 4x - 3y = 7 \dots (i)$$

$$\text{According to second condition}$$

$$\frac{x+9}{y+9} = \frac{7}{8} \Rightarrow 8x + 72 = 7y + 63$$

$$\Rightarrow 7y - 8x = 9$$

$$\dots (ii)$$

$$8x - 6y = 14$$

$$7y - 8x = 9$$

$$y = 23 \text{ years.}$$

101. (c)  $P + \frac{p \times r \times t}{100} = 5428$

$$\frac{4600 \times 3 \times t}{100} = 5428 - 4600 = 828$$

$$\Rightarrow t = \frac{828 \times 100}{4600 \times 3} = 6 \text{ years}$$

102. (e) Required average =  $\frac{59 + 84 + 44 + 98 + 30 + 40 + 58}{7} = 59$

103. (e)  $x + (x+1) + (x+2) = 1383$

$$\Rightarrow 3x + 3 = 1383$$

$$\Rightarrow 3x = 1380$$

$$\Rightarrow x = \frac{1380}{3} = 460$$

$$\text{Largest number} = x + 2 = 462$$

(104-106) :

104. (e) Cost price of article = `5600

$$\text{Marked price} = 5600 + 5600 \times \frac{12}{100}$$

$$\text{SP} = 6272 + 6272 \times \frac{5}{100} = 5958.4$$

$$= \text{` } 6272$$

105. (c) Profit% =  $\frac{5958.4 - 5600}{5600} \times 100$

$$= \frac{358.4}{56} = 6.4\%$$

106. (d) Amount of discount =  $6272 \times \frac{5}{100}$

$$= 313.6$$

107. (e) Let the width of Rectangle = b  
 $39 \times b = 1209$   
 $b = \frac{1209}{39} = 31 \text{ meters.}$   
 Perimeter =  $2(39 + 31) = 140 \text{ meters.}$
108. (b) Total number of users of brand B across all Five cities  
 $= 600 + 500 + 650 + 700 + 550 = 3000$
109. (c)  $700 = x\% \text{ of } 500$   
 $700 = \frac{x \times 500}{100} \Rightarrow x = \frac{700}{5} = 140$
110. (c) Required average =  $\frac{500 + 550 + 600 + 550 + 700}{5} = 580$
111. (d) Required difference =  $1250 - 1100 = 150$   
 $= \frac{500}{5} = 5:7$
112. (a) Required Ratio =  $\frac{700}{700} = 1:1$
113. (c) Cost price per article = 311  
 Selling price per article =  $\frac{9954}{21} = 474$   
 Profit per article =  $\frac{474 - 311}{311} \times 100 = 52\%$
114. (c) Let the A can do the task in x days.  
 $\frac{1}{x} + \frac{1}{10} = \frac{1}{8}$   
 $\frac{1}{x} = \frac{1}{8} - \frac{1}{10} = \frac{10 - 8}{80} = \frac{2}{80} = \frac{1}{40}$   
 $x = 40$
115. (a) %profit =  $\frac{2006 - 1700}{1700} \times 100 = \frac{306}{1700} \times 100 = 18\%$
116. (a)  $1 \times 1 = 1$   
 $1 \times 2 = 2$   
 $2 \times 3 = 6$   
 $6 \times 4 = 24$   
 $24 \times 5 = 120$
117. (b)  $8 - 7 = 1 = 1^3$   
 $16 - 8 = 8 = 2^3$   
 $43 - 16 = 27 = 3^3$   
 $? - 43 = 64 = 4^3$   
 $232 - 107 = 125 = 5^3$
118. (b)  $4 \times 3 + 1 = 13$   
 $4 \times 4 + 1 = 17$   
 $4 \times 5 + 1 = 21$
119. (c)  $982 - 977 = 5$   
 $977 - 952 = 25$   
 $952 - 827 = 125$   
 $827 - 822 = 5$   
 $822 - ? = 25$

$$? = 822 - 25 = 797$$

120. (c)  $1 \times 8 = 8$

$$8 \times 9 = 72$$

$$72 \times 8 = 576$$

$$576 \times 9 = 5184$$

$$5184 \times 8 = 41472$$

121. (b) After arranging -

ITW, ABR **NRU** EFLOPT

123. (c)

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| W   | I   | T   | B   | A   | R   | U   | R   | N   | E   | L   | F   | T   | O   | P   |
| -1↓ | +1↓ | -1↓ | -1↓ | +1↓ | -1↓ | +1↓ | -1↓ | -1↓ | +1↓ | -1↓ | -1↓ | -1↓ | +1↓ | -1↓ |
| V   | J   | S   | A   | B   | Q   | V   | Q   | M   | F   | K   | E   | S   | P   | O   |

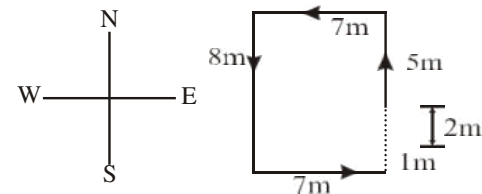
124. (a)

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| W   | I   | T   | B   | A   | R   | U   | R   | N   | E   | L   | F   | T   | O   | P   |
| +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ | +1↓ |
| X   | J   | U   | C   | B   | S   | V   | S   | O   | F   | M   | G   | U   | P   | Q   |

125. (c) Dictionary order is-

|     |     |     |            |     |
|-----|-----|-----|------------|-----|
| 1   | 2   | 3   | 4          | 5   |
| BAR | ELF | TOP | <b>URN</b> | WIT |

126. (d)



127. (e) Coding for:

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| I   | D   | E   | A   | S   |
| -1↓ | +1↓ | -1↓ | +1↓ | -1↓ |
| H   | E   | D   | B   | R   |

Coding for:

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| W   | O   | U   | L   | D   |
| -1↓ | +1↓ | -1↓ | +1↓ | -1↓ |
| V   | P   | T   | M   | C   |

Similarly,

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| R   | I   | G   | H   | T   |
| -1↓ | +1↓ | -1↓ | +1↓ | -1↓ |
| Q   | J   | F   | I   | S   |

(128-130):

A > B and C

B > D only

E did not pay the minimum amount and paid ` 8,000

128. (e) A > C & E

only B > D

B > D > A > E > C

↓  
8,000`

129. (b) E paid = ` 8,000

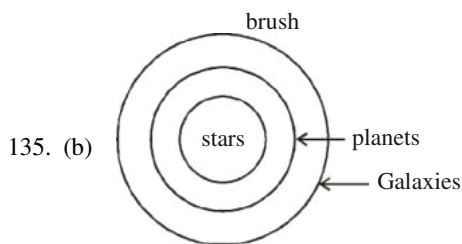
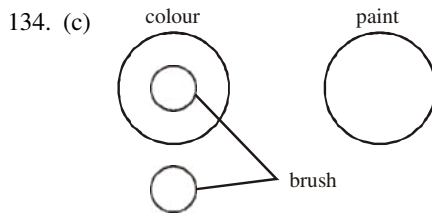
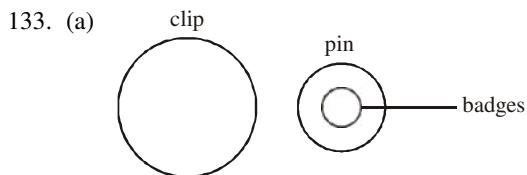
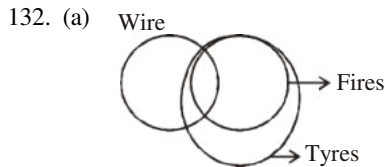
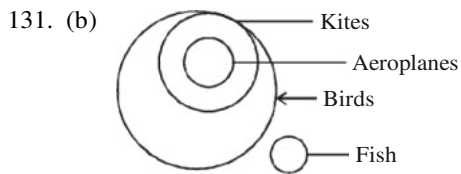
D paid = 17,000 + 8,000 = 25,000

Possibly amount paid by A = 16,000

Because D > A > E

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137. (d) The given arrangement is:

8th to the left of 20th  
↓  
B U B D C E D B D E U (B) A D  
C B E A C (D) A E B A U A C D  
B C A C  
↓  
20th from the left

138. (b) B U C E  
C U B E

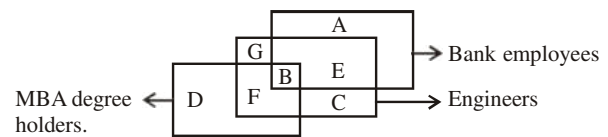
139. (d) U B D  
C E D  
A D C  
A C D

140. (a) E

(141-145) :

S R Q P  
| | | |  
A C D B

(146-150):



146. (e) B is common to all diagram
147. (c) Letter A and E are common to such rectangle
148. (b) Letter D represents only MBA degree holders.
149. (b) Letter F represents such engineers who are MBA degree holders but not bank employees.
150. (e) Letter C represents only engineers (neither MBA nor bank employees).
151. (d) Next figure of each problem figure changes like that the horizontal line shifted to downward and the letters changes their position on either side of vertical lines and middle letter of horizontal line changes by new letter.
153. (a) Next second figure of each problem figure is rotated clockwise by  $90^\circ$  and in next figure of each problem figure one more circle is darken.
154. (e) First right of each problem figure change like : The figures on hexagonal side are rotated clockwise one side and two side respectively and one more same figure added on particular side.
155. (b) Next right figure of each problem figure is rotated anticlockwise clockwise respectively by so and the figure at apex is changes to new Figure.
156. (a) Next figure of each question figure is related by  $45^\circ$  and  $90^\circ$ ,  $135^\circ$ ,  $180^\circ$  anticlockwise respectively and the figure at end of line shifted to opposite corner.
157. (d) Corner figure is shifted to vertices of triangle and one corner figure is changed by new figure.
158. (a) In next figure of each question figure lower part of combination figure is doubled crossed and upper left corner figure is attached at power part.

# SBI Clerk Solved Paper-2011

Held on : 16-01-2011 (2<sup>nd</sup> Sitting)

Based on Memory

Time : 135 minutes

Max. Marks : 200

## General Awareness

- The Govt. of India and RBI are making all the efforts to provide Banking facilities to all the villages/habitations in the country. This is the part of their policy of:
  - PURA
  - Financial Inclusion
  - Swawalamban
  - Pradhan Mantri Adarsh Gram Yojana
  - None of these
- Which of the following is **NOT** a Private Bank in India?
  - Yes Bank
  - HDFC Bank
  - Axis Bank
  - Kotak Mahindra Bank
  - IDBI Bank
- Which of the following is/are **NOT** the functions of a bank?
  - Accepting deposits from the public
  - Grant of loans and advances
  - Providing finance to all those who cannot earn enough to survive
  - Only (A)
  - Only (B)
  - Only (C)
  - All (A), (B) & (C)
  - Only (B) & (C)
- David Cameron who was in news recently is the \_\_\_\_\_
  - President of Australia
  - Prime Minister of United Kingdom
  - President of Brazil
  - Prime Minister of Brazil
  - None of these
- Farmers in India are covered by some welfare schemes. Which of the following is the name of the same?
  - Swasthya Bima Yojana
  - Varsha Bima Yojana
  - National Pension Scheme for unorganized sector
  - Food for work scheme
  - None of these
- Which of the following Awards is given to a sports coach?
  - Arjuna Award
  - Khel Ratna Puraskar
  - Sportsman of the year Award
  - Dronacharya Award
  - None of these
- Who amongst the following has taken over as the Chief Minister of Bihar after recent assembly elections there?
  - Lalu Prasad Yadav
  - Ramvilas Paswan
  - Nitish Kumar
  - Syed Shahnawaj Hussain
  - None of these
- Hashim Amla who was awarded the player of the year in his category is a famous \_\_\_\_\_
  - Tennis player
  - Badminton player
  - Hockey player
  - Chess player
  - Cricket player
- What does the letter 'F' denote in the abbreviated name 'IIFCL'?
  - Functional
  - Foreign
  - Forwarded
  - Finance
  - None of these
- What is the purpose of Mahatma Gandhi National Rural Employment Guarantee Act?
  - To provide employment to all those who are unemployed
  - To provide 100 days employment to those who are willing to take a job
  - To ensure that nobody in a village remains unemployed
  - To ensure that people get enough income during off season
  - None of these
- 'Guangzhou' was recently in news as \_\_\_\_\_
  - G-20 Summit took place there
  - Commonwealth Games were organized there
  - ASEAN Summit took place there
  - Asian Games 2010 were organized there
  - None of these
- Which of the following is a treaty associated with the use of Nuclear Power?
  - NPT
  - SAFTA
  - GATT
  - Look East Policy
  - None of these
- Nicole Faria who was crowned 'Miss Earth - 2010' is from which of the following countries?
  - Brazil
  - India
  - Britain
  - Italy
  - France
- Which of the following awards/honours is given to Mr. Pranab Mukherjee?
  - Parliamentarian of the year
  - Best Union Minister
  - Finance Minister of the year for Asia
  - SAARC Parliamentarian of the year
  - None of these
- Which of the following names is associated with a Health scheme launched by the Govt. of India?
  - VAT
  - MAT
  - CAR
  - AAFI
  - ASHA

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16. Gagan Narang who won 4 gold medals in Delhi Common - wealth Games is basically a \_\_\_\_\_  
 (a) Weight lifter (b) Badminton player  
 (c) Table Tennis player (d) Swimmer  
 (e) Air Rifle shooter
17. An individual going to Kuwait will have to make all his/her payments in which of the following currencies?  
 (a) Pula (b) Ruble  
 (c) Curo (d) Lari  
 (e) Dinar
18. World's largest bourse was inaugurated in Mumbai recently. The bourse will deal in which of the following commodities?  
 (a) Textiles (b) Gold  
 (c) Silver (d) Diamond  
 (e) None of these
19. HINDALCO is a company operating in the area of \_\_\_\_\_  
 (a) Car & Automobile  
 (b) Textiles  
 (c) Cement manufacturing  
 (d) Software development  
 (e) Aluminium & Copper rolling
20. Who has written the book "The White Tiger" ?  
 (a) Saul Bellow (b) Amitav Ghosh  
 (c) Salman Rushdie (d) V. S. Naipaul  
 (e) Aravind Adiga
21. Which of the following is a form of irrigation used in India?  
 (a) Dip (b) Booting  
 (c) Amalga (d) Extension Service  
 (e) None of these
22. Who amongst the following is one of the winner of the Nobel Prize 2010 in Physics?  
 (a) Andre Geim (b) Alex Sammond  
 (c) Robert G Edwards (d) Akira Suzuki  
 (e) None of these
23. Mr. Howard Jacobson who is Booker prize winner for 2010 writes in \_\_\_\_\_  
 (a) Spanish (b) German  
 (c) Russian (d) French  
 (e) English
24. Who amongst the following has never been the Prime Minister of India?  
 (a) Smt. Indira Gandhi (b) Lal Bahadur Shastri  
 (c) Morarji Desai (d) Somnath Chatterjee  
 (e) Rajiv Gandhi
25. Who amongst the following is a famous man Booker Prize winner author of Indian origin?  
 (a) Chetan Bhagat (b) Arundhati Roy  
 (c) Namita Gokhale (d) Upamanyu Chatterjee  
 (e) None of these
26. Which of the following schemes is launched to make cities free from slums?  
 (a) Indira Aawas Yojana  
 (b) Bharat Nirman  
 (c) Rajiv Gandhi Awas Yojana  
 (d) Pradhan Mantri Aadarsha Gram Yojana  
 (e) None of these
27. Which of the following trophies/cups is **NOT** associated with the game of Football?  
 (a) Challenge Cup  
 (b) Nehru Gold Cup  
 (c) Carling Cup  
 (d) FIFA World Cup  
 (e) Merdeka Cup
28. Shri S M Krishna recently signed an agreement with Dr. Guido Westerwelle when he came to India in October 2010. This means this was an agreement between India and \_\_\_\_\_  
 (a) USA (b) Russia  
 (c) Germany (d) France  
 (e) Brazil
29. The first general election was held in India in \_\_\_\_\_  
 (I) 1951-52 (b) 1962  
 (c) 1957 (d) 1947-48  
 (e) 1949
30. Which one of the following taxes/cess is levied by States in India?  
 (a) Tax on motor vehicles (b) Educational cess  
 (c) Tax on hotels (d) Tax on wealth  
 (e) All of these
31. Who among the following has been declared as Businessman of the decade?  
 (a) Mukesh Ambani (b) Anil Ambani  
 (c) Ratan Tata (d) Azim Premji  
 (e) Aditya Birla
32. Tejaswini Sawant is the first Indian woman to be crowned world champion in \_\_\_\_\_  
 (a) Shooting (b) Wrestling  
 (c) Boxing (d) Athletics  
 (e) None of these
33. NAV is normally used in respect of schemes floated by \_\_\_\_\_  
 (a) Banks (b) Mutual funds  
 (c) Insurance companies (d) Merchant banker  
 (e) None of these
34. The regulator of the Insurance Companies in India is \_\_\_\_\_  
 (a) RBI (b) Finance Minister  
 (c) SEBI (d) IBA  
 (e) None of these
35. The headquarters of SAARC is in \_\_\_\_\_  
 (a) Kathmandu (b) New Delhi  
 (c) Islamabad (d) Dhaka  
 (e) Colombo
36. The seat of International Court of Justice is established at \_\_\_\_\_  
 (a) Geneva (b) Hague  
 (c) Chicago (d) Switzerland  
 (e) Washington
37. Which of the following states has achieved the highest literacy rate?  
 (a) Haryana (b) West Bengal  
 (c) Kerala (d) Maharashtra  
 (e) Tamil Nadu



38. Money laundering refers to \_\_\_\_\_  
 (a) Conversion of assets into cash  
 (b) Conversion of money which is illegally obtained  
 (c) Conversion of cash into gold  
 (d) Conversion of gold into cash  
 (e) Money power
39. Who won the Commonwealth Writer' Prize on April 12, 2010?  
 (a) Shobha De (b) Tara Joshi  
 (c) Arvind Virmani (d) Rana Dasgupta  
 (e) Khushwant Singh
40. Brahmos is a/an \_\_\_\_\_  
 (a) Fighter plane (b) Patton tank  
 (c) Submarine (d) Supersonic missile  
 (e) Helicopter

### General English

**DIRECTIONS (41-47) :** Read the following passage carefully and answer the questions given below it. Certain words are printed in bold to help you locate them while answering some of the Questions.

Once upon a time in a village, there lived six blind men. In spite of their blindness, they had managed to educate themselves. Seeking to expand their knowledge, they decided to visit a zoo and try out their skills in recognising animals by their touch. The first animal they came across, as soon as they entered the zoo, was an elephant.

As the first man approached the elephant, the elephant waved its trunk, and the man felt something brush past him. Managing to hold on to it, he felt it, and found something long and moving. He jumped back in alarm, shouting "Move away! This is a snake!" Meanwhile, the second man had moved closer, and walked right near its legs. As the man touched the thick, cylindrical-shaped legs, he called out "Do not worry. These are just four trees here. There is certainly no snake!" The third man was curious hearing the other two, and moved forward. As he walked towards the elephant, he felt his hand touch one of the tusks. Feeling the smooth, sharp ivory tusk, the man cried out "Be careful! There is a sharp spear here". The fourth man cautiously walked up behind the elephant, and felt its swinging tail. "It's just a rope! There is nothing to be afraid of!" he said. The fifth man had meanwhile reached out and was touching the huge ears of the animal. "I think all of you have lost your sense of touch!" he said. "This is nothing but a huge fan!" The sixth man did not want to be left out. As he walked towards the elephant, he bumped into its massive body, and he exclaimed, "Hey! This is just a huge mud wall! There is no animal at all!" All six of them were **convinced** that they were right, and began arguing amongst themselves.

Wondering what the commotion was all about, the zoo keeper arrived at the scene, and was surprised to see six blind men surrounding an elephant, each of them shouting at the top of their voice! "Quiet" he shouted out, and when they had calmed down, he asked, "Why are all of you shouting and arguing in this manner?" They replied, "Sir, as you can see, we are all blind. We came here to expand our knowledge. We sensed an animal here, and tried to get an idea of its appearance by feeling it. However, we are not able to arrive at a **consensus** over its appearance, and

hence are arguing. Can you please help us and tell us which of us is right?"

The zoo keeper laughed before answering, "My dear men, each of you has touched just one portion of the animal. The animal you see is neither a snake, nor any of the other things you have mentioned. The animal in front of you is an elephant!" As the six men bowed their head, ashamed of the scene they had created, the zoo keeper said, "My dear men, this is a huge animal, and luckily, it is tame. It stood by calmly as each of you touched it. You are extremely lucky that it stayed calm even during your argument, for if it had got angry, it would have trampled all of you to death!" He continued further, "It is not enough to gather knowledge, but it is also important to learn to share and **pool** your knowledge. Instead of fighting amongst yourselves, if you had tried to put all your observations together, you might have had an idea of the animal as a whole! Also, when you cannot see the entire truth, it is better to go to someone who does know the complete truth, rather than guess about small parts of it. Such half- knowledge is not only useless, but also dangerous. If you had come directly to me, I would have helped you identify all the animals without putting you in danger!" The six men apologized to the zoo keeper, and assured him that they had learnt their lesson. From now on, they would seek true knowledge from qualified people, and would also try to work together as a team so that they could learn more.

41. Which part of the elephant resembled a big fan?  
 (a) The wide ears  
 (b) The mouth  
 (c) The long slender trunk  
 (d) The big wrinkled body  
 (e) The end of the tail
42. Why did the six blind men visit the zoo?  
 (a) They wanted to touch an elephant  
 (b) They had heard a lot about animals  
 (c) They wanted to visit the animals in the zoo  
 (d) They wished to recognise animals by their touch and feel  
 (e) They had never been to a zoo before
43. What was the first thing the blind men came across as they entered the zoo?  
 (a) A large mud wall (b) The zoo keeper  
 (c) The trees (d) The elephant  
 (e) A snake
44. Why is it that each of the six blind men had different impressions of the elephant?  
 (A) Each of them touched only a portion of the elephant  
 (B) Each of the six blind men approached different animals  
 (C) The blind men were touching the surroundings instead of the elephant  
 (D) They had never touched an elephant before  
 (a) Only (A) (b) Only (A) and (C)  
 (c) Only (C) (d) Only (B) and (D)  
 (e) Only (B)

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45. Why were the six men arguing and shouting amongst themselves?  
 (a) Each of them wanted his voice to be heard over and above the others  
 (b) Each of them thought he was right about the animal  
 (c) There was a lot of noise in the zoo and they couldn't hear each other  
 (d) They were having an interesting debate  
 (e) None of these
46. What advice did the zoo keeper give to the six blind men?  
 (a) That the elephant was tame and obedient  
 (b) That they were very lucky to have had the opportunity to visit the zoo  
 (c) That it was important to share knowledge and work together as a team  
 (d) That they were not qualified to be knowledgeable individuals  
 (e) That the elephant is made up of different parts
47. Which statement best describes the zoo keeper's behaviour towards the six blind men?  
 (a) The zoo keeper insulted the six men  
 (b) The zoo keeper presented himself to be as ignorant as they were  
 (c) The zoo keeper helped them and assisted them further  
 (d) The zoo keeper was indifferent towards the six blind men  
 (e) The zoo keeper prohibited the six blind men from entering the zoo
53. I am **in touch with** the police, and they will be here in ten minutes.  
 (a) in communication with  
 (b) in close proximity with  
 (c) in good terms with  
 (d) familiar with  
 (e) None of these
54. I **stumbled upon** some interesting old letters in my Grandfather's desk.  
 (a) deliberately went through  
 (b) surveyed  
 (c) tripped over  
 (d) discovered by chance  
 (e) None of these
55. The secretary **made an entry** of the arrangement.  
 (a) initiated discussion (b) made a record  
 (c) brought notice (d) showed approval  
 (e) None of these

**DIRECTIONS (48-50) :** Choose the word which is most nearly the same in meaning as the word printed in bold as used in the passage.

48. **Convinced**  
 (a) Certain (b) Doubtful  
 (c) Pressured (d) Committed  
 (e) Daring
49. **Pool**  
 (a) Expand (b) Gather  
 (c) Devote (d) Apply  
 (e) Combine
50. **Consensus**  
 (a) Harmony (b) Agreement  
 (c) Information (d) Order  
 (e) Inference

**DIRECTIONS (51-55):** In each of the following sentences, an idiomatic expression or a proverb is highlighted. Select the alternative which best describes its use in the sentence.

51. **In all likelihood** the missing boy has run away to the forest  
 (a) with good intentions (b) there's no chance  
 (c) without doubt (d) in most probability  
 (e) None of these
52. The parents were completely **in the dark** concerning their daughter's plans.  
 (a) ignorant about (b) ashamed of  
 (c) pretending to be unaware  
 (d) unhappy about  
 (e) None of these
53. I am **in touch with** the police, and they will be here in ten minutes.  
 (a) in communication with  
 (b) in close proximity with  
 (c) in good terms with  
 (d) familiar with  
 (e) None of these
54. I **stumbled upon** some interesting old letters in my Grandfather's desk.  
 (a) deliberately went through  
 (b) surveyed  
 (c) tripped over  
 (d) discovered by chance  
 (e) None of these
55. The secretary **made an entry** of the arrangement.  
 (a) initiated discussion (b) made a record  
 (c) brought notice (d) showed approval  
 (e) None of these
56. In times of crisis, (a) / the Bhagavad Gita gives light (b)/ and guide to the mind tortured by doubt (c)/ and torn by conflict of duties. (d)/ No Error (e)
57. It was not easy for late Raja Ram Mohan Roy (a)/ to root out the custom of sati (b) / because a majority of (c)/ the educated class does not support him. (d) / No Error (e).
58. Deplete of the Ozone layer (a) / and the greenhouse effect (b) / are two long-term effects (c)/of air pollution. (d)/ No Error (e).
59. Most of the people which (a)/ have been victims (b) / of extreme violence (c)/ are too frightened to report it to the police. (d)/ No Error (e)
60. The doctor helps (a)/ to reducing human suffering (b)/by curing diseases (c)/ and improving health. (d)/ No Error (e)

**DIRECTIONS (61-65) :** Each sentence below has a blank, each blank indicates that something has been omitted. Choose the word / group of words that best fit/s the meaning of the sentence as a whole.

61. When I was training for the marathon, I am run over 100 kilometres a week.  
 (a) have to (b) would  
 (c) will (d) destined  
 (e) used to
62. My colleague is one of the kindest people\_\_\_\_\_.  
 (a) that I knows (b) I know  
 (c) who I know (d) which I know  
 (e) I had known

63. The lawyer's \_\_\_\_\_ led to the resolution of the problem.  
 (a) behaviour (b) fees  
 (c) advice (d) impact  
 (e) approval
64. The government claims that \_\_\_\_\_ in the telecommunications industry will mean lower prices for customers.  
 (a) budget (b) finance  
 (c) installments (d) decrease  
 (e) competition
65. Sarah was walking along the street \_\_\_\_\_ she tripped over.  
 (a) when (b) as  
 (c) while (d) then  
 (e) however

**DIRECTIONS (66-70) :** In each question below, four words printed in bold type are given. These are numbered (a), (b), (c) and (d). One of these words printed in bold may either be wrongly spelt or inappropriate in the context of the sentence. Find out the word that is inappropriate or wrongly spelt, if any. The number of that word is your answer. If all the words printed in bold are correctly spelt and appropriate in the context of the sentence then mark (e) i.e. 'All Correct' as your answer.

66. All the **competitors** (a)/ **completed** (b)/ the **race** (c), with just one **accepton** (d). All Correct (e)
67. Poor **posture** (a)/ can **lead** (b)/ to **muscular** (c)/ **problems** (d)/ in later life. All Correct (e)
68. The **pump** (a)/ shut **off** (b)/ as a **result** (c)/ of a **mechanical** (d) failure. All Correct (e)
69. The **Principal** (a)/ gave a very **pompous** (b)/ **speech** (c)/ about 'The **portals** (d) / of learning'. All Correct (e)
70. **Copeing** (a)/ with her mother's long **illness** (b) / was a heavy **load** (c)/ to **bear** (d). All Correct (e)

**DIRECTIONS (71-75) :** Rearrange the following six sentences/ group of sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below.

- (A) To his surprise, a little honeybee came before his throne and said. "Of all the gifts you could give me, only one will do. I'd like the power to inflict great pain whenever I choose to."
- (B) I hereby give you a sharp sting. But, I am sure you will use this weapon carefully only in times of anger and strife.
- (C) "What an awful wish!" said great Zeus, "But I will grant it".
- (D) And to this day, the little honeybee dies after it stings.
- (E) One day, Zeus, the King of Mount Olympus, was giving out gifts to beasts, birds and insects.
- (F) "You will get to use it only once, for using it will cost you your life."
71. Which of the following should be the **FOURTH** sentence after the rearrangement?  
 (a) D (b) F  
 (c) B (d) E  
 (e) C
72. Which of the following should be the **SECOND** sentence after the rearrangement?

- (a) A (b) D  
 (c) F (d) B  
 (e) E
73. Which of the following should be the **FIRST** sentence after the rearrangement?  
 (a) E (b) B  
 (c) D (d) C  
 (e) F
74. Which of the following should be the **SIXTH (LAST)** sentence after the rearrangement?  
 (a) A (b) D  
 (c) F (d) E  
 (e) C
75. Which of the following should be the **FIFTH** sentence after the rearrangement?  
 (a) E (b) D  
 (c) B (d) C  
 (e) F

**DIRECTIONS (76-80) :** In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Day dreaming is often overlooked as a proper dream and (76) instead as wandering thoughts. However, the meanings to your nightly dream symbols are also (77) to your day dreams. The content in your day dreams are helpful in understanding your true feelings and will help you in (78) your goals. Day dreaming is the spontaneous imagining or recalling of various images or experiences in the past or the future. When you daydream, you are accessing your right brain, which is the creative and feminine side of your personality. Worrying about something creates visual images in your brain of the worst outcome that you are imagining and is a form of daydreaming. By repeating these negative images in your mind, you are more likely to make them happen. So the next time you start worrying, try to think of a positive outcome. Positive daydreaming is very healthy and acts as a temporary (79) from the demands of reality. It is also a good way to (80) built up frustrations without physically acting them out.

76. (a) composed (b) determined  
 (c) thought (d) felt  
 (e) regarded
77. (a) duplicated (b) present  
 (c) established (d) applicable  
 (e) depictive
78. (a) thinking (b) holding  
 (c) achieving (d) realise  
 (e) capturing
79. (a) solitude (b) healing  
 (c) gateway (d) passage  
 (e) escape
80. (a) adjust (b) confirm  
 (c) capture (d) release  
 (e) demonstrate

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Section-III : Quantitative Aptitude

**DIRECTIONS (81-90) :** What should come in place of the question mark (?) in the following questions ?

81.  $6389 - 1212 - 2828 = ?$   
 (a) 2349 (b) 2493  
 (c) 2934 (d) 2394  
 (e) None of these
82.  $\frac{31}{43} \times \frac{86}{95} \times \frac{41}{93} = ?$   
 (a)  $\frac{82}{267}$  (b)  $\frac{82}{283}$   
 (c)  $\frac{82}{265}$  (d)  $\frac{82}{285}$   
 (e) None of these
83.  $526 \times 12 + 188 = 50 \times ?$   
 (a) 120 (b) 160  
 (c) 140 (d) 110  
 (e) None of these
84.  $62^2 - 32^2 + (?)^2 = 3144$   
 (a) 17 (b) 16  
 (c) 19 (d) 15  
 (e) None of these
85.  $\sqrt[3]{21952} + 33 = ?$   
 (a) 58 (b) 61  
 (c) 63 (d) 51  
 (e) None of these
86.  $? \% \text{ of } 5600 - 28 \% \text{ of } 3500 = 1988$   
 (a) 58 (b) 55  
 (c) 51 (d) 53  
 (e) None of these
87.  $32000 \times \frac{2}{4} \times ? \times \frac{1}{2} = 4800$   
 (a)  $\frac{2}{3}$  (b)  $\frac{3}{5}$   
 (c)  $\frac{2}{5}$  (d)  $\frac{1}{4}$   
 (e) None of these
88.  $(8536 - \sqrt{2209}) \times 0.3 = ?$   
 (a) 2556.7 (b) 2456.7  
 (c) 2546.7 (d) 2645.7  
 (e) None of these
89.  $\frac{5}{8} + \frac{1}{4} + \frac{7}{12} = ?$   
 (a)  $1\frac{11}{24}$  (b)  $1\frac{13}{24}$   
 (c)  $1\frac{9}{26}$  (d)  $1\frac{7}{24}$   
 (e) None of these

90.  $(3584 \div 32) - 11 = \sqrt{?}$   
 (a) 10021 (b) 12001  
 (c) 10221 (d) 10201  
 (e) None of these

**DIRECTIONS (91-95) :** What should come in place of the question mark (?) in the following number series ?

91. 4 19 49 94 154 ?  
 (a) 223 (b) 225  
 (c) 229 (d) 239  
 (e) None of these
92.  $\frac{1}{2}$  1  $1\frac{1}{2}$  2  $2\frac{1}{2}$  3 ?  
 (a)  $3\frac{1}{2}$  (b)  $2\frac{1}{3}$   
 (c) 4 (d)  $3\frac{1}{4}$   
 (e) None of these
93. 101 103 99 105 97 ? 95  
 (a) 93 (b) 104  
 (c) 108 (d) 107  
 (e) None of these
94. 3 219 344 408 ? 443 444  
 (a) 416 (b) 435  
 (c) 423 (d) 428  
 (e) None of these
95. 7 10 16 28 52 ? 196  
 (a) 100 (b) 90  
 (c) 160 (d) 150  
 (e) None of these
96. The average of five numbers is 57.8. The average of the first and the second numbers is 77.5 and the average of the fourth and fifth numbers is 46. What is the third number?  
 (a) 45 (b) 43  
 (c) 42 (d) Cannot be determined  
 (e) None of these
97. Mr. Nair's monthly salary is ₹ 22,500. He took a loan of ₹ 30,000 on simple interest for 3 years at the rate of 5 p.c.p.a. The amount that he will be paying as simple interest in 3 years is what percent of his monthly salary ?  
 (a) 10 (b) 18  
 (c) 20 (d) 25  
 (e) None of these
98. If the numerator of a certain fraction increased by 100% and the denominator is increased by 200%; the new fraction thus formed is  $\frac{4}{21}$ . What is the original fraction ?  
 (a)  $\frac{2}{7}$  (b)  $\frac{3}{7}$   
 (c)  $\frac{2}{5}$  (d)  $\frac{4}{7}$   
 (e) None of these

99. In how many different ways can the letters of the word 'SIMPLE' be arranged ?  
 (a) 520  
 (b) 120  
 (c) 5040  
 (d) 270  
 (e) None of these
100. 52% students from a college participated in a survey. What is the respective ratio between the number of students who did not participate in the survey to the number of students who participated ?  
 (a) 11 : 13  
 (b) 12 : 13  
 (c) 12 : 17  
 (d) Cannot be determined  
 (e) None of these

**DIRECTIONS (101-105) :** Study the following table carefully and answer the questions that follow:

**Number of students specialising in different fields from six different colleges. M - Males, F - Females**

| Name of College | S pecialisation |    |           |    |     |    |            |    |            |    |                    |    |
|-----------------|-----------------|----|-----------|----|-----|----|------------|----|------------|----|--------------------|----|
|                 | Economics       |    | Marketing |    | HRM |    | S ociology |    | Psychology |    | Political S cience |    |
|                 | M               | F  | M         | F  | M   | F  | M          | F  | M          | F  | M                  | F  |
| K               | 53              | 45 | 34        | 47 | 18  | 36 | 25         | 45 | 21         | 34 | 24                 | 56 |
| L               | 62              | 65 | 34        | 14 | 15  | 58 | 18         | 56 | 56         | 65 | 58                 | 86 |
| M               | 18              | 28 | 67        | 25 | 26  | 85 | 25         | 35 | 64         | 85 | 68                 | 46 |
| N               | 33              | 24 | 23        | 19 | 45  | 54 | 24         | 34 | 54         | 75 | 57                 | 86 |
| O               | 28              | 10 | 45        | 25 | 14  | 47 | 48         | 54 | 21         | 36 | 46                 | 56 |
| P               | 53              | 34 | 34        | 30 | 27  | 20 | 32         | 78 | 21         | 96 | 79                 | 35 |

101. What is the average number of females specialising in HRM from all the colleges together ?  
 (a) 30  
 (b) 45  
 (c) 50  
 (d) 55  
 (e) None of these
102. The total number of males in college L are **approximately** what percent of total females from the same college ?  
 (a) 10  
 (b) 30  
 (c) 50  
 (d) 110  
 (e) 70
103. What is the respective ratio between the total number of students specialising in Economics from college P and the total number of students specialising in Psychology from the same college ?  
 (a) 29 : 31  
 (b) 25 : 34  
 (c) 28 : 39  
 (d) 25 : 39  
 (e) None of these
104. The total number of females specializing in Political Science from colleges K, N and P together are **approximately** what percent of the males specialising in the same field from the same colleges ?  
 (a) 210  
 (b) 90  
 (c) 190  
 (d) 150  
 (e) 110
105. How many students are there in a college M from all the specialisations together ?  
 (a) 574  
 (b) 576  
 (c) 572  
 (d) 568  
 (e) None of these
106. How much will be the compound interest to be paid on a principal amount of ` 53,000 after 2 years at the rate of 4 p.c.p.a. ?  
 (a) ` 4,324.8  
 (b) ` 4,432.8  
 (c) ` 4,342.8  
 (d) ` 4,234.8  
 (e) None of these
107. The area of a rectangle is twice the area of a triangle. The perimeter of the rectangle is 58 cm. What is the area of the triangle ?  
 (a) 106 cm<sup>2</sup>  
 (b) 108 cm<sup>2</sup>  
 (c) 104 cm<sup>2</sup>  
 (d) Cannot be determined  
 (e) None of these
108. Yesterday Shweta completed 300 units of work at the rate of 15 units per minute. Today she completed the same units of work but her speed was 40% faster than yesterday. What is the **approximate** difference in the time she took to complete the work yesterday and the time she took today ?  
 (a) 16 minutes  
 (b) 26 minutes  
 (c) 46 minutes  
 (d) 36 minutes  
 (e) 6 minutes
109. The average speed of a bus is 8 times the average speed of a bike. The bike covers a distance of 186 km in 3 hours. How much distance will the bus cover in 10 hours ?  
 (a) 4069km  
 (b) 4096km  
 (c) 4960km  
 (d) 4690km  
 (e) None of these
110. What is the value of (x) in the following equation ?  

$$\frac{(x)^{1.2}}{98} = \frac{28}{(x)^{1.8}}$$
 (a) 18  
 (b) 12  
 (c) 16  
 (d) 14  
 (e) None of these



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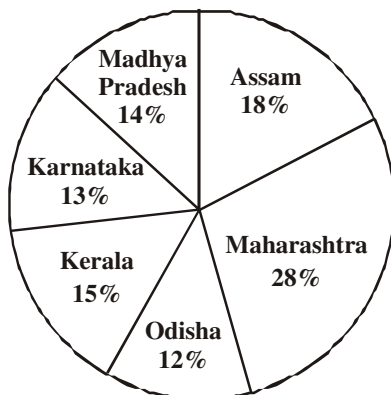
**DIRECTIONS (111-115):** What approximate value should come in place of the question mark (?) in the following questions ?

(Note: You are not expected to calculate the exact value.)

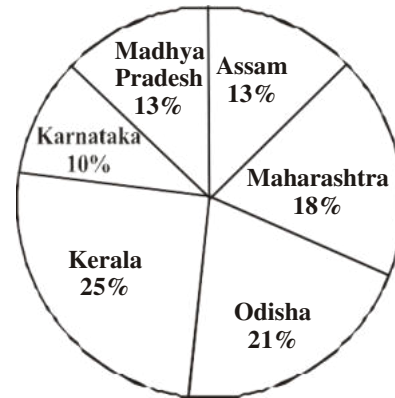
111.  $\sqrt[3]{1231} = ?$   
 (a) 11 (b) 30  
 (c) 50 (d) 70  
 (e) 100
112.  $507.893 + 253.013 + 199.781 = ?$   
 (a) 760 (b) 860  
 (c) 560 (d) 460  
 (e) 960
113.  $7231 \div 21 \times 1.7 = ?$   
 (a) 585 (b) 650  
 (c) 555 (d) 525  
 (e) 505
114.  $\sqrt{9355} = ?$   
 (a) 35 (b) 115  
 (c) 25 (d) 95  
 (e) 65
115.  $170 \times 14 \div 181 = ?$   
 (a) 3 (b) 13  
 (c) 33 (d) 53  
 (e) 43

**DIRECTIONS (116-120):** Study the following pie charts carefully and answer the questions that follow:

**Percentage of students from different states attending a national seminar**  
**Total Students: 8000**



**Percentage of female students from different states attending a national seminar**  
**Total Students: 3500**



116. What is the respective ratio between the number of female students from Karnataka to the number of female students from Kerala ?  
 (a) 2 : 7 (b) 2 : 5  
 (c) 2 : 3 (d) 3 : 7  
 (e) None of these
117. What is the total number of male students from Maharashtra and Madhya Pradesh together ?  
 (a) 2175 (b) 2725  
 (c) 2527 (d) 2275  
 (e) None of these
118. What is the respective ratio between the number of male students from Assam and the number of male students from Madhya Pradesh ?  
 (a) 197:134 (b) 197:135  
 (c) 197:133 (d) 199:133  
 (e) None of these
119. What is the respective ratio between the number of female students from Karnataka and the number of male students from the same state ?  
 (a) 35:69 (b) 32:69  
 (c) 38:69 (d) 35:67  
 (e) None of these
120. The number of female students from Assam are **approximately** what percent of the male students from the same state ?  
 (a) 14 (b) 28  
 (c) 96 (d) 66  
 (e) 46

### Reasoning Ability

121. In a certain language 'to be polite' is coded as 'fa so la', 'she is polite' is coded as 'so me pa' and 'to have manners' is coded as 'na la ma'. Which of the following is the code for 'be' in that language?  
 (a) so (b) fa  
 (c) la (d) me  
 (e) na
122. 'Lead' is related to 'Pencil' in the same way as 'Ink' is related to  
 (a) Bottle (b) Pen  
 (c) Stamp (d) Pot  
 (e) Colour

123. How many meaningful English words can be formed with the letters ONFT using each letter only once in each word?
- (a) None (b) One  
(c) Two (d) Three  
(e) More than three
124. If the digits in the number 25673948 are arranged in ascending order from left to right, what will be the sum of the digits which are fourth from the right and third from the left in the new arrangement?
- (a) 10 (b) 9  
(c) 4 (d) 6  
(e) 8
125. In a certain code GIVEN is written as MDVJH. How is SHARK written in that code?
- (a) JSAIT (b) JQAIT  
(c) TIAQJ (d) JQBTI  
(e) JQIAT
126. If each of the vowels in the word HONESTLY is changed to the next letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series, and then the alphabets so formed are arranged in alphabetical order from left to right, which of the following will be fifth from the left of the new arrangement thus formed?
- (a) S (b) R  
(c) M (d) F  
(e) P
127. If it is possible to make only one meaningful word with the first, second, fifth and sixth letters of the word PYGMALION, which of the following would be the second letter of that word from the right end? If no such word can be made, give 'X' as your answer and if more than one such word can be formed, give your answer as 'Z'.
- (a) X (b) P  
(c) Y (d) A  
(e) Z
128. Four of the following five are alike in a certain way and so form a group, which is the one that does not belong to that group?
- (a) Feathers (b) Leaves  
(c) Twigs (d) Nest  
(e) Hay
129. How many such pairs of letters are there in the word DUPLICATE each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical order?
- (a) None (b) One  
(c) Two (d) Three  
(e) More than three
130. In a certain language 'GUST' is coded as '@7\$2' and 'SNIP' is coded as '957#' and 'GAPE' is coded as 'ß\$35'. How will 'SING' be coded in the same code?

- (a) 9\$7# (b) 59#  
(c) 9ß7\$ (d) 7\$59  
(e) \$27#

**DIRECTIONS (131-135) :** In each of the questions below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the statements disregarding commonly known facts.

**Give answer (a)** if only conclusion I follows.

**Give answer (b)** if only conclusion II follows.

**Give answer (c)** if either conclusion I or conclusion II follows.

**Give answer (d)** if neither conclusion I nor conclusion II follows.

**Give answer (e)** if both conclusions I and II follow.

**131. Statements:**

All petals are flowers.

Some flowers are not petals.

Some petals are colours.

**Conclusions:**

I. Some flowers are colours.

II. Some flowers are not colours.

**132. Statements:**

All desks are tables.

Some tables are drawers.

Some drawers are big.

**Conclusions:**

I. Some tables are big.

II. No desk is a drawer.

**133. Statements:**

All colleges are buildings.

All buildings are concrete.

Some concrete are strong.

**Conclusions :**

I. Some colleges are strong.

II. At least some strong are concrete.

**134. Statements:**

Some trees are tall.

All tall are healthy.

All healthy are not tall.

**Conclusions:**

I. Some healthy are tall.

II. Some trees are not tall.

**135. Statements:**

All books are interesting.

All magazines are books.

Some interesting that are not books are journals.

**Conclusions:**

I. All books are journals.

II. All magazines are interesting.

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**DIRECTIONS (136-140) :** Read the following information carefully and answer the questions which follow:

If 'A \* Z' means 'A is the wife of Z'.  
 If 'A × Z' means 'A is the husband of Z'.  
 If 'A + Z' means 'A is the sister of Z'.  
 If 'A - Z' means 'A is the brother of Z'.  
 If 'A > Z' means 'A is the son of Z'.  
 If 'A < Z' means 'A is the daughter of Z'.

136. Which of the following relations will **not** be true if the expression 'A < P × T + F > L × M' is **definitely true**?
- A is the daughter of T
  - F is the son of M
  - P is the son-in-law of L
  - A is the cousin of F
  - M is the grandmother of A
137. Which of the following means N is the daughter-in-law of A?
- M + N \* P > A
  - N < M × P + A
  - M - N × P < A
  - A < P + N × M
  - A < N < P \* M
138. How is P related to F if 'Q × P < B + F'?
- Daughter
  - Niece
  - Daughter-in-law
  - Grand daughter
  - Aunt
139. Which of the following means P is the father of R?
- R > S < P \* J
  - J + R - S < P
  - R > S \* P - J
  - S + J × R < P
  - None of these
140. How is M related to B if 'A \* B > Z × S + M'?
- Aunt
  - Grandfather
  - Uncle
  - Cousin
  - Cannot be determined

**DIRECTIONS (141-145) :** The following questions are based on the five three digit numbers given below:

612 589 743 468 297

141. If two is added to the first digit of each of the numbers, how many numbers thus formed will be completely divisible by three?
- None
  - One
  - Two
  - Three
  - Four
142. If the position of the second and the third digits of each of the numbers are interchanged, in how many numbers thus formed will the last digit be a perfect square? ('1' is also a perfect square)
- One
  - Two
  - Three
  - Four
  - Five
143. What will be the resultant if the third digit of the second lowest number is divided by the second digit of the highest number?
- 4
  - 1
  - 6
  - 5
  - 2

144. If all the digits in each of the numbers are arranged in descending order within the number, which of the following will form the highest number in the new arrangement of numbers?

- 612
- 589
- 743
- 468
- 297

145. If all the numbers are arranged in ascending order from left to right, which of the following will be the sum of all the three digits of the number which is second from the right of the new arrangement thus formed?

- 14
- 9
- 18
- 16
- 12

**DIRECTIONS (146-150):** Study the following information carefully and answer the given questions.

Six friends L, M, N, O, P and Q work in three different cities namely Chennai, Pune and Nasik (not more than two work in a single city). Each of them has a different profession, viz. "banker, software engineer, lawyer, lecturer, doctor and psychologist, but not necessarily in the same order.

O works in Chennai and is not a lecturer. M is a banker by profession and works in Pune with only Q, who is a software engineer by profession. N works in Nasik and is not a lawyer by profession. P is a doctor and does not work in Chennai. The only other person who works in Chennai is a lecturer by profession.

146. Which of the following is **true** for L?

- L is a lecturer by profession.
- L works in the same place as N.
- L is neither a lecturer nor a lawyer by profession.
- L works in Pune.
- None of these

147. Which two people work in Nasik?

- L and N
- N and P
- L and Q
- N and O
- Cannot be determined

148. Which of the following combinations of person, place and profession is correct?

- Q - Nasik - Psychologist
- P - Pune - Doctor
- L - Nasik - Lecturer
- N - Chennai - Software engineer
- O - Chennai - Lawyer

149. Which of the following is the occupation of N?

- Software engineer
- Psychologist
- Lecturer
- Lawyer
- None of these

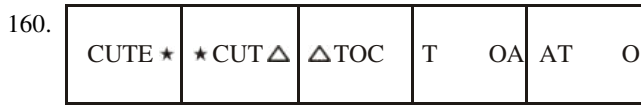
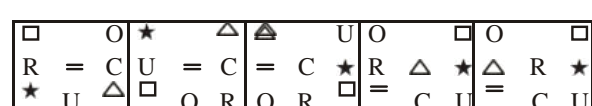
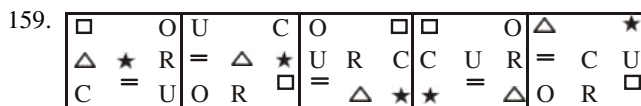
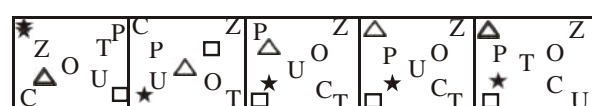
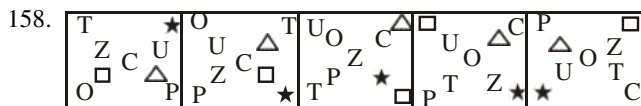
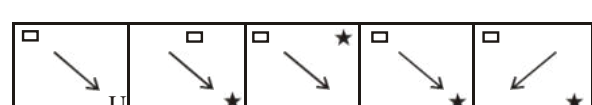
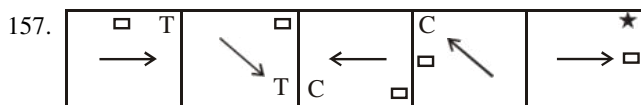
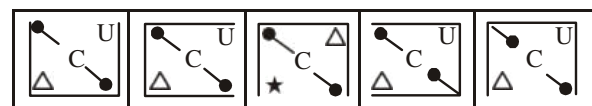
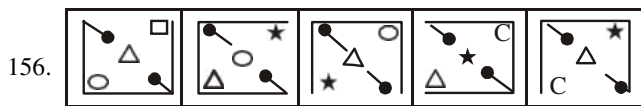
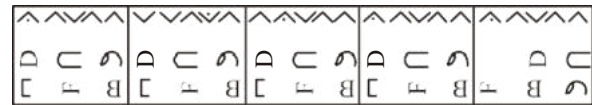
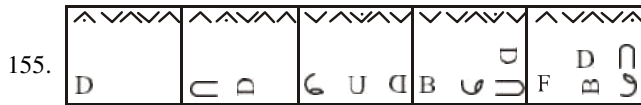
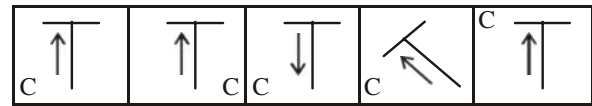
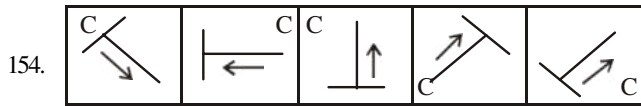
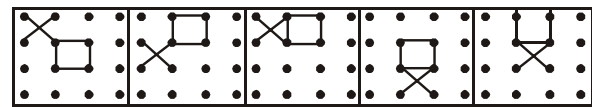
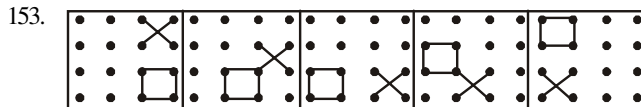
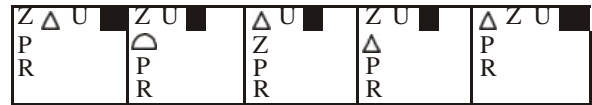
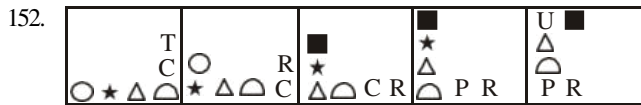
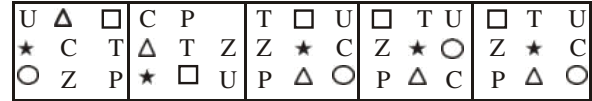
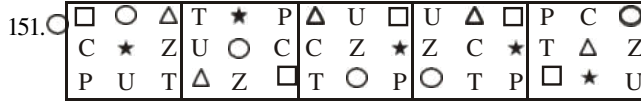
150. Who among the following five is a lawyer by profession among the group of friends?

- O
- L
- N
- Q
- None of these

**DIRECTIONS (151-160) :** In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued?

**Problem Figures**

**Answer Figures**





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Section - V : Marketing Aptitude/  
Computer Knowledge

161. Which of the following groups consist of only input devices?  
 (a) Mouse. Keyboard. Monitor  
 (b) Mouse. Keyboard. Printer  
 (c) Mouse. Keyboard. Plotter  
 (d) Mouse. Keyboard. Scanner  
 (e) None of these
162. A menu contains a list of  
 (a) commands (b) data  
 (c) objects (d) reports  
 (e) None of these
163. What is output?  
 (a) What the processor takes from the user  
 (b) What the user gives to the processor  
 (c) What the processor gets from the user  
 (d) What the processor gives to the user  
 (e) None of these
164. An error is also known as  
 (a) bug (b) debug  
 (c) cursor (d) icon  
 (e) None of these
165. Computer\_\_\_\_\_is whatever is typed, submitted, or transmitted to a computer system.  
 (a) input (b) output  
 (c) data (d) circuitry  
 (e) None of these
166. Which process checks to ensure the components of the computer are operating and connected properly?  
 (a) Booting (b) Processing  
 (c) Saving (d) Editing  
 (e) None of these
167. Unsolicited commercial email is commonly known as  
 (a) spam (b) junk  
 (c) hoaxes (d) hypertext  
 (e) None of these
168. \_\_\_\_\_is processed by the computer into information.  
 (a) numbers (b) processor  
 (c) input (d) data  
 (e) None of these
169. A web site address is a unique name that identifies a specific \_\_\_\_\_on the web.  
 (a) web browser (b) web site  
 (c) PDA (d) link  
 (e) None of these
170. A device that connects to a network without the use of cables is said to be  
 (a) distributed (b) centralised  
 (c) open source (d) wireless  
 (e) None of these
171. Editing a document consists of reading through the document you've created, then  
 (a) correcting your errors  
 (b) printing it  
 (c) saving it  
 (d) deleting it  
 (e) None of these
172. The Internet allows you to  
 (a) send electronic mail  
 (b) view web pages  
 (c) connect to servers all around the world  
 (d) All of these  
 (e) None of these
173. Most mail programs automatically complete the following two parts in an e-mail  
 (a) From : and Body : (b) From : and Date :  
 (c) From : and To : (d) From : and Subject :  
 (e) None of these
174. Where is the disk put in a computer?  
 (a) in the modem (b) in the hard drive  
 (c) into the CPU (d) in the disk drive  
 (e) None of these
175. The name a user assigns to a document is called a(n)  
 (a) filename (b) program  
 (c) record (d) data  
 (e) None of these
176. An e-mail address typically consists of a user ID followed by the \_\_\_\_\_sign and the name of the e-mail server that manages the user's electronic post office box.  
 (a) @ (b) #  
 (c) & (d) ★  
 (e) None of these
177. A personal computer is designed to meet the computing needs of a(n)  
 (a) individual (b) department  
 (c) company (d) city  
 (e) None of these
178. Ctrl, shift and alt are called \_\_\_\_\_keys.  
 (a) adjustment (b) function  
 (c) modifier (d) alphanumeric  
 (e) None of these
179. File \_\_\_\_\_shrinks the size of a file so it requires less storage space.  
 (a) scanning (b) synthesizing  
 (c) defragmenting (d) compression  
 (e) None of these
180. In addition to the basic typing keys, desktop and notebook computer keyboards include a(n) \_\_\_\_\_keypad to efficiently move the screen-based insertion point.  
 (a) editing (b) number  
 (c) locked (d) docked  
 (e) None of these
181. Safe Deposit Locker can be canvassed among  
 (a) all existing account holders  
 (b) persons below poverty line  
 (c) students  
 (d) jewelers  
 (e) ATM cardholders



182. Tele marketing means
  - (a) selling telephones
  - (b) sending SMS messages
  - (c) chatting on the phone
  - (d) marketing through phone calls
  - (e) marketing in person
183. The USP of a Credit Card is
  - (a) cashless operations
  - (b) only for HNIs
  - (c) only for men
  - (d) only for employed persons
  - (e) transactions through cheque book
184. EMI can be a marketing tool if
  - (a) EMI is increasing
  - (b) It is very high
  - (c) It is very low
  - (d) EMI has no impact on marketing
  - (e) EMI is a flat rate
185. The USP of a Current Account is
  - (a) high profitability      (b) liquidity
  - (c) low rate of interest      (d) costly transactions
  - (e) friendly features
186. Bancassurance means
  - (a) assurance of banks for quality service
  - (b) assurance for sanction of loans
  - (c) selling of insurance products by banks
  - (d) selling credit cards
  - (e) selling debit cards
187. Good competition helps in
  - (a) improved sales
  - (b) improved customer service
  - (c) improved brand image
  - (d) All of these
  - (e) None of these
188. Banks sell insurance for
  - (a) increasing deposits
  - (b) increasing loans
  - (c) increasing clients
  - (d) earning more profits
  - (e) taking over insurance companies
189. Debit Card can be issued to
  - (a) Only Income Tax assesses
  - (b) Only Professionals
  - (c) Only women
  - (d) All farmers
  - (e) All Savings Account holders
190. Mutual Funds investments can be effectively canvassed among
  - (a) only salaried persons
  - (b) students availing education loans
  - (c) HNI customers
  - (d) sunrise industries
  - (e) poor farmers
191. Product Design is a function of
  - (a) front office staff
  - (b) back office staff
  - (c) management
  - (d) marketing and research team
  - (e) loan section
192. The target group for Personal Loans is
  - (a) All Private Limited Companies
  - (b) All Businessmen
  - (c) All Salaried persons
  - (d) Minor children
  - (e) Newborn infants
193. Advertisement is a type of
  - (a) Direct marketing      (b) Service marketing
  - (c) Indirect marketing      (d) Internet banking
  - (e) Internal marketing
194. The sales process begins with
  - (a) customer identification
  - (b) lead generation
  - (c) sales presentation
  - (d) sales closure
  - (e) sales meet
195. Financial Planning is required when
  - (a) one has no income
  - (b) one is flushed with funds
  - (c) one has no expenses to incur
  - (d) one is illiterate
  - (e) income level is insufficient to meet the expenses
196. 'Value added services' implies
  - (a) additional knowledge of marketing staff
  - (b) service beyond normal hours
  - (c) service with extra facilities
  - (d) marketing agencies
  - (e) overtime work
197. Optimum results in marketing is possible through
  - (a) increased production
  - (b) more number of products
  - (c) more sales persons
  - (d) motivated staff
  - (e) more ATMs
198. Mutual Fund business from existing customers can be canvassed by
  - (a) Coercion      (b) Cross-selling
  - (c) Internal marketing      (d) Outdoor marketing
  - (e) Road-shows
199. Marketing in banks has been necessitated due to
  - (1) globalisation
  - (b) excess staff
  - (c) nationalisation of bank
  - (d) complacency among the staff
  - (e) poor customer service
200. Market Research is necessary for
  - (a) making proper marketing decisions
  - (b) choosing the right products
  - (c) selecting the right sales persons
  - (d) All of these
  - (e) None of these

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| ANSWER KEY |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1          | (b) | 21 | (a) | 41 | (a) | 61 | (e) | 81  | (a) | 101 | (c) | 121 | (b) | 141 | (b) | 161 | (d) | 181 | (a) |
| 2          | (e) | 22 | (a) | 42 | (d) | 62 | (b) | 82  | (d) | 102 | (e) | 122 | (b) | 142 | (c) | 162 | (a) | 182 | (d) |
| 3          | (c) | 23 | (e) | 43 | (d) | 63 | (c) | 83  | (c) | 103 | (e) | 123 | (b) | 143 | (e) | 163 | (d) | 183 | (a) |
| 4          | (b) | 24 | (d) | 44 | (a) | 64 | (e) | 84  | (e) | 104 | (e) | 124 | (a) | 144 | (b) | 164 | (a) | 184 | (c) |
| 5          | (b) | 25 | (b) | 45 | (b) | 65 | (a) | 85  | (b) | 105 | (c) | 125 | (b) | 145 | (b) | 165 | (a) | 185 | (e) |
| 6          | (d) | 26 | (c) | 46 | (c) | 66 | (d) | 86  | (d) | 106 | (a) | 126 | (e) | 146 | (a) | 166 | (a) | 186 | (c) |
| 7          | (c) | 27 | (a) | 47 | (c) | 67 | (e) | 87  | (c) | 107 | (d) | 127 | (d) | 147 | (b) | 167 | (a) | 187 | (d) |
| 8          | (c) | 28 | (c) | 48 | (a) | 68 | (d) | 88  | (c) | 108 | (e) | 128 | (a) | 148 | (e) | 168 | (d) | 188 | (d) |
| 9          | (d) | 29 | (a) | 49 | (b) | 69 | (c) | 89  | (a) | 109 | (c) | 129 | (b) | 149 | (b) | 169 | (b) | 189 | (e) |
| 10         | (b) | 30 | (b) | 50 | (b) | 70 | (a) | 90  | (d) | 110 | (d) | 130 | (a) | 150 | (a) | 170 | (d) | 190 | (a) |
| 11         | (d) | 31 | (c) | 51 | (d) | 71 | (c) | 91  | (c) | 111 | (a) | 131 | (a) | 151 | (e) | 171 | (a) | 191 | (d) |
| 12         | (a) | 32 | (a) | 52 | (a) | 72 | (a) | 92  | (a) | 112 | (e) | 132 | (d) | 152 | (c) | 172 | (d) | 192 | (c) |
| 13         | (b) | 33 | (b) | 53 | (a) | 73 | (a) | 93  | (d) | 113 | (a) | 133 | (b) | 153 | (b) | 173 | (b) | 193 | (a) |
| 14         | (c) | 34 | (c) | 54 | (d) | 74 | (b) | 94  | (b) | 114 | (d) | 134 | (a) | 154 | (a) | 174 | (d) | 194 | (b) |
| 15         | (e) | 35 | (a) | 55 | (b) | 75 | (e) | 95  | (a) | 115 | (b) | 135 | (b) | 155 | (a) | 175 | (a) | 195 | (e) |
| 16         | (e) | 36 | (b) | 56 | (c) | 76 | (e) | 96  | (c) | 116 | (b) | 136 | (d) | 156 | (b) | 176 | (a) | 196 | (c) |
| 17         | (e) | 37 | (c) | 57 | (d) | 77 | (d) | 97  | (c) | 117 | (d) | 137 | (a) | 157 | (d) | 177 | (a) | 197 | (d) |
| 18         | (d) | 38 | (b) | 58 | (a) | 78 | (c) | 98  | (a) | 118 | (c) | 138 | (b) | 158 | (d) | 178 | (c) | 198 | (b) |
| 19         | (e) | 39 | (d) | 59 | (a) | 79 | (e) | 99  | (e) | 119 | (a) | 139 | (c) | 159 | (e) | 179 | (d) | 199 | (a) |
| 20         | (e) | 40 | (d) | 60 | (b) | 80 | (d) | 100 | (b) | 120 | (e) | 140 | (e) | 160 | (c) | 180 | (b) | 200 | (a) |

## ANSWERS & EXPLANATIONS

41. (a) The wide ears.  
 42. (d) They wished to recognise animals by their touch and feel.  
 43. (d) The elephant.  
 44. (a) Only (A)  
 45. (b) Each of them thought he was right about the animal.  
 46. (c) That it was important to share knowledge and work together as a team.  
 47. (c) The zoo keeper helped them and assisted them further.  
 48. (a) The meaning of the word **Convinced (Adjective)** as used in the passage is : completely sure about something; certain.  
**Look at the sentence :**  
 I am convinced of his innocence.  
 49. (b) The meaning of the word **Pool (Verb)** as used in the passage is : to collect money, information etc from different people so that it can be used by all of them; gather.

### Look at the sentence:

Police forces are pooling resources in order to solve this crime.

50. (b) The meaning of the word **Consensus (Noun)** as used in the passage is : agreement; an opinion that all members of a group agree with.

### Look at the sentence:

There is a growing consensus of opinion on this issue.

51. (d) In most probability  
 52. (a) ignorant about  
 53. (a) in communication with  
 54. (d) discovered by chance  
 55. (b) made a record.  
 56. (c) Here, and guidance to the mind tortured by doubt should be used.

### Look at the sentence:

All activities take place under the guidance of an experienced tutor.

57. (d) Here, Past Simple i.e. the educated class did not support him.....should be used as the sentence shows past time.
58. (a) Here, Depletion (Noun) of the Ozone layer .....should be used.
59. (a) Here, Most of the people who should be used. Who is used to show which person or people you mean.  
**Look at the sentence:**  
The people who called yesterday want to buy the house.
60. (b) Here, in reducing human suffering .....should be used.
61. (e) used to
62. (b) I know
63. (c) advice
64. (e) competition
65. (a) when
66. (d) The correct spelling is : exception.
67. (e) All correct
68. (d) The correct spelling is : mechanical.
69. (c) The correct spelling is : speech.
70. (a) The correct spelling is : coping.
71. (c) B
72. (a) A
73. (a) E
74. (b) D
75. (e) F
76. (e) regarded
77. (d) applicable
78. (c) achieving
79. (e) escape
80. (d) release
81. (a)  $? = 6389 - 1212 - 2828 = 2349$
82. (d)  $? = \frac{31}{43} \times \frac{86}{95} \times \frac{41}{93} = \frac{82}{285}$
83. (e)  $526 \times 12 + 188 = 50 \times ?$   
 $\Rightarrow 6312 + 188 = 50 \times ?$   
 $\Rightarrow 6500 = 50 \times ?$   
 $\therefore ? = \frac{6500}{50} = 130$
84. (e)  $(62 + 32)(62 - 32) + ?^2 = 3144$   
 $\Rightarrow 94 \times 30 + ?^2 = 3144$   
 $\Rightarrow 2820 + ?^2 = 3144$   
 $\Rightarrow ?^2 = 3144 - 2820 = 324$   
 $\therefore ? = \sqrt{324} = 18$

85. (b)  $? = \sqrt[3]{21952} + 33$   
 $= \sqrt[3]{28 \times 28 \times 28} + 33$   
 $= 28 + 33 = 61$
86. (d)  $\frac{5600 \times ?}{100} - \frac{3500 \times 28}{100} = 1988$   
 $\Rightarrow 56 \times ? - 980 = 1988$   
 $\Rightarrow 56 \times ? = 1988 + 980 = 2968$   
 $\therefore ? = \frac{2968}{56} = 53$
87. (c)  $32000 \times \frac{3}{4} \times ? \times \frac{1}{2} = 4800$   
 $\Rightarrow 12000 \times ? = 4800$   
 $\Rightarrow ? = \frac{4800}{12000} = \frac{2}{5}$
88. (c)  $? = (8536 - \sqrt{2209}) \times 0.3$   
 $= (8536 - 47) \times 0.3$   
 $= 8489 \times 0.3 = 2546.7$
89.  $\frac{5}{8} + \frac{1}{4} + \frac{7}{12}$  (a)  $? = \frac{\quad}{\quad} + \frac{\quad}{\quad}$   
 $= \frac{15 + 6 + 14}{24} = \frac{35}{24} = 1\frac{11}{24}$
90. (d)  $\sqrt{?} = \frac{3584}{32} - 11$   
 $= 112 - 11 = 101$   
 $\therefore ? = 101 \times 101 = 10201$
91. (c) The pattern of the number series is :  
 $4 + 1 \times 15 = 19$   
 $19 + 2 \times 15 = 49$   
 $49 + 3 \times 15 = 94$   
 $94 + 4 \times 15 = 154$   
 $154 + 5 \times 15 = \boxed{229}$
92. (a) The pattern of the number series is :  
 $\frac{1}{2} + \frac{1}{2} = 1$   
 $1 + \frac{1}{2} = 1\frac{1}{2}$   
 $1\frac{1}{2} + \frac{1}{2} = 2$   
 $\therefore ? = 3 + \frac{1}{2} = \boxed{3\frac{1}{2}}$

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93. (d) The pattern of the number series is :

$$101 + 2 = 103$$

$$103 - 4 = 99$$

$$99 + 6 = 105$$

$$105 - 8 = 97$$

$$97 + 10 = \boxed{107}$$

94. (b) The pattern of the number series is :

$$219 - 3 = 216 = 6^3$$

$$344 - 219 = 125 = 5^3$$

$$408 - 344 = 64 = 4^3$$

$$\therefore ? = 408 + 3^3$$

$$= 408 + 27 = \boxed{435}$$

95. (a) The pattern of the number series is :

$$7 + 3 = 10$$

$$10 + 12 (= 2 \times 3) = 16$$

$$16 + 12 (= 2 \times 6) = 28$$

$$28 + 24 (= 2 \times 12) = 52$$

$$52 + 48 (= 2 \times 24) = \boxed{100}$$

96. (c) Third number

$$= 5 \times 57.8 - 2 \times 77.5 - 2 \times 46$$

$$= 289 - 155 - 92 = 42$$

97. (c) S.I. =  $\frac{\text{Principal} \times \text{Time} \times \text{Rate}}{100}$

$$= \frac{30000 \times 3 \times 5}{100} = \text{` } 4500$$

$$\text{Let } x \% \text{ of } 22500 \% = 4500$$

$$\Rightarrow \frac{22500 \times x}{100} = 4500$$

$$\Rightarrow x = \frac{4500 \times 100}{22500} = 20$$

98. (a) Let the original fraction be  $\frac{x}{y}$ .

$$\therefore \frac{x \times 200}{y \times 300} = \frac{4}{21}$$

$$\Rightarrow \frac{x}{y} = \frac{4}{21} \times \frac{3}{2} = \frac{2}{7}$$

99. (e) The word SIMPLE consists of 6 distinct letters

$$\therefore \text{Number of arrangements} = 6!$$

$$= 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$$

100. (b) Required ratio = 48 : 52

$$= 12 : 13$$

101. (c) Average number of females specializing in HRM

$$= \frac{36 + 58 + 85 + 54 + 47 + 20}{6} = \frac{300}{6} = 50$$

102. (e) Total number of males in college L

$$= 62 + 34 + 15 + 18 + 56 + 58 = 243$$

$$\text{Total number of females in college L}$$

$$= 65 + 14 + 58 + 56 + 65 + 86 = 344$$

$$\therefore \text{Required percentage} = \frac{243}{344} \times 100 \approx 70$$

103. (e) Required ratio

$$= (53 + 34) : (21 + 96)$$

$$= 87 : 117 = 29 : 39$$

104. (e) Total number of females specialising in Political Science

$$\text{from colleges K, N and P together}$$

$$= 56 + 86 + 35 = 177$$

$$\text{Number of males in these colleges}$$

$$= 24 + 57 + 79 = 160$$

$$\therefore \text{Required percentage} = \frac{177}{160} \times 100 \approx 110$$

105. (c) Total number of students specialising in college

$$M = 572$$

$$106. (a) CI = P \left[ \left( 1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= 53000 \left[ \left( 1 + \frac{4}{100} \right)^2 - 1 \right]$$

$$= 53000 \left[ \left( \frac{26}{25} \right)^2 - 1 \right]$$

$$= 53000 \left[ \frac{676}{625} - 1 \right]$$

$$= \frac{53000 \times 51}{625} = \text{` } 4324.8$$

107. (d) According to the question, length + breadth = 29 cm  
We don't know either length or breadth. Hence we cannot determine the required answer.

108. (e) Shweta's initial speed = 15 units per minute

$$\text{Shweta's new speed} = \frac{15 \times 140}{100} = 21 \text{ units/minute}$$

∴ Difference in time

$$= \left( \frac{300}{15} - \frac{300}{21} \right) \text{ minutes}$$

$$= 300 \left( \frac{1}{15} - \frac{1}{21} \right) \text{ minutes}$$

$$= 300 \left( \frac{7-5}{105} \right) \text{ minutes}$$

$$= \frac{300 \times 2}{105} \text{ minutes} \approx 6 \text{ minutes}$$

109. (c) Speed of bike =  $\frac{\text{Distance}}{\text{Time}}$

$$= \frac{186}{3} = 62 \text{ kmph}$$

∴ Speed of bus =  $8 \times 62$

$$= 496 \text{ kmph}$$

Distance covered by bus in 10 hours

$$= 496 \times 10 = 4960 \text{ km}$$

110. (d)  $(x)^{1.2} \times (x)^{1.8} = 28 \times 98$

$$\Rightarrow (x)^{1.2+1.8} = 28 \times 98$$

$$\Rightarrow (x)^3 = 2 \times 2 \times 7 \times 7 \times 7 \times 2 = 2^3 \times 7^3$$

$$\therefore x = \sqrt[3]{2^3 \times 7^3} = 2 \times 7 = 14$$

111. (a) ?  $\approx 11$  because  $11 \times 11 \times 11 = 1331$  and  $10 \times 10 \times 10 = 1000$

112. (e) ?  $\approx 508 + 253 + 200 \approx 961$

∴ Required answer = 960

113. (a) ? =  $\frac{7231}{21} \times 1.7 \approx 585$

114. (d) ? =  $\sqrt{9355} \approx 95$

115. (b) ? =  $170 \times 14 \div 181$

$$= \frac{170 \times 14}{181} \approx 13$$

116. (b) Required ratio =  $10 : 25 = 2 : 5$

117. (d) Total number of students from Maharashtra and Madhya Pradesh

$$= \frac{8000 \times (28 + 14)}{100}$$

Number of females from these states

$$= \frac{3500 \times 31}{100} = 1085$$

∴ Number of male students from these states  
=  $3360 - 1085 = 2275$

118. (c) Number of male students from Assam

$$= \frac{8000 \times 18}{100} - \frac{3500 \times 13}{100}$$

$$= 1440 - 455 = 985$$

Number of male students from Madhya Pradesh

$$= \frac{800 \times 14}{100} - \frac{3500 \times 13}{100}$$

$$= 1120 - 455 = 665$$

∴ Required ratio =  $985 : 665 = 197 : 133$

119. (a) Number of male students from Karnataka

$$= \frac{8000 \times 13}{100} - \frac{3500 \times 10}{100}$$

$$= 1040 - 350 = 690$$

Number of females = 350

∴ Required ratio =  $350 : 690 = 35 : 69$

120. (e) Required percentage =  $\frac{455}{985} \times 100 \approx 46$

121. (b) (to) be (polite) → fa (so) (la)

she is (polite) → (so) me pa

(to) have manners → na (la) ma

122. (b) Lead is used in pencil for writing. Similarly, ink is used in pen to write something.

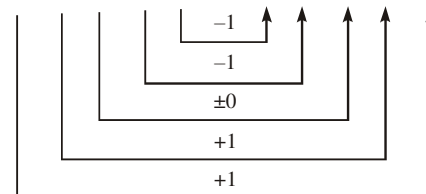
123. (b) Meaningful Word ⇒ FONT

124. (a) 2 5 6 7 3 9 4 8

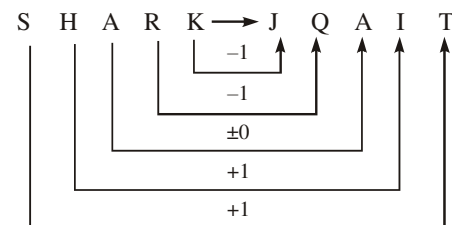
$$2 \ 3 \ \boxed{4} \ 5 \ \boxed{6} \ 7 \ 8 \ 9$$

$$= 6 + 4 = 10$$

125. (b) G I V E N → M D V J H



Similarly,





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126. (e) H O N E S T L Y  
 $\begin{matrix} -1 & +1 & -1 & +1 & -1 & -1 & -1 & -1 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ G & P & M & F & R & S & K & X \end{matrix}$

F G K M **P** R S X

127. (d) 

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| P | Y | G | M | A | L | I | O | N |

Meaningful Word  $\Rightarrow$  PL**A**Y

128. (a) Feathers are found in birds. Leaves, twigs, nest and hay are related to vegetation.

129. (b) 

|   |    |    |    |   |   |   |    |   |
|---|----|----|----|---|---|---|----|---|
| 4 | 21 | 16 | 12 | 9 | 3 | 1 | 20 | 5 |
| D | U  | P  | L  | I | C | A | T  | E |

130. (a) 

|          |   |          |          |               |         |           |           |          |
|----------|---|----------|----------|---------------|---------|-----------|-----------|----------|
| <b>G</b> | U | <b>S</b> | T        | $\rightarrow$ | @       | <b>7</b>  | <b>\$</b> | 2        |
| <b>S</b> | N | I        | <b>P</b> | $\rightarrow$ | 9       | <b>5</b>  | <b>7</b>  | #        |
| <b>G</b> | A | <b>P</b> | E        | $\rightarrow$ | $\beta$ | <b>\$</b> | 3         | <b>5</b> |

Therefore, S I N G  $\Rightarrow$  7 9 # \$

(131-135):

- (i) All petals are flowers  $\Rightarrow$  Universal Affirmative (A-type)
- (ii) Some petals are colours  $\Rightarrow$  Particular Affirmative (I-type)
- (iii) No desk is a drawer  $\Rightarrow$  Universal Negative (E-type)
- (iv) Some desks are not drawers  $\Rightarrow$  Particular Negative (O-type)

131. (a) Some colours are petals.

$\swarrow$   
 All petals are flowers.  
 I + A  $\Rightarrow$  I-type of Conclusion  
 "Some colours are flowers".  
 Conclusion I is Converse of it.

132. (d) All desks are tables.

$\swarrow$   
 Some tables are drawers.  
 A + I  $\Rightarrow$  No Conclusion

133. (b) All colleges are buildings.

$\swarrow$   
 All buildings are concrete.  
 A + A  $\Rightarrow$  A-type of Conclusion

"All colleges are concrete".

Conclusion II is Converse of the third Premise.

134. (a) Some trees are tall.

$\swarrow$   
 All tall are healthy.  
 I + A  $\Rightarrow$  I-type of Conclusion  
 "Some trees are healthy."  
 Conclusion I is Converse of the second Premise.

135. (b) All magazines are books.

$\swarrow$   
 All books are interesting.  
 A + A  $\Rightarrow$  A-type of Conclusion  
 "All magazines are interesting."  
 This is Conclusion II.

136. (d) A < P  $\Rightarrow$  A is the daughter of P.

P  $\times$  T  $\Rightarrow$  P is the husband of T.  
 T + F  $\Rightarrow$  T is the sister of F.  
 F > L  $\Rightarrow$  F is the son of L.  
 L  $\times$  M  $\Rightarrow$  L is the husband of M.  
 A is the daughter of P and T.  
 F is the son of the L and M.  
 T is the daughter of L and M.  
 Therefore, P is son-in law of L.  
 A is the niece of F.  
 M is grandmother of A.

137. (a) M + N  $\Rightarrow$  M is the sister of Z.

N \* P  $\Rightarrow$  N is the wife of P.  
 P > A  $\Rightarrow$  P is the son of A.  
 N is the daughter in-law of A.

138. (b) Q  $\times$  P  $\Rightarrow$  Q is the husband of P.

P < B  $\Rightarrow$  P is daughter of B.  
 B + F  $\Rightarrow$  B is the sister of F.  
 P is the niece of F.

139. (c) R > S  $\Rightarrow$  R is the son of S.

S < P  $\Rightarrow$  S is the daughter of P.  
 P \* J  $\Rightarrow$  P is the wife of J.  
 Therefore, P is the grandmother of R.  
 J + R  $\Rightarrow$  J is the sister of R.  
 R - S  $\Rightarrow$  R is the brother of S.  
 S < P  $\Rightarrow$  S is the daughter of P.

P is the either father or mother of R.  
 $R > S \Rightarrow R$  is the son of S.  
 $S * P \Rightarrow S$  is the wife of P.  
Therefore, P is the father of R.

140. (e)  $A * B \Rightarrow A$  is the wife of B.  
 $B > Z \Rightarrow B$  is the son of Z.  
 $Z \times S \Rightarrow Z$  is the husband of S.  
 $S + M \Rightarrow S$  is the sister of M.  
The sex of M is not known.  
M is maternal uncle or aunt of B.

141. (b)  $612 \Rightarrow 812; 589 \Rightarrow 789;$   
 $743 \Rightarrow 943; 468 \Rightarrow 668;$   
 $297 \Rightarrow 497$   
 $\frac{812}{3} = 270.66; \frac{789}{3} = 263;$   
 $\frac{943}{3} = 314.33; \frac{668}{3} = 222.66;$   
 $\frac{497}{3} = 165.66$

142. (c)  $612 \Rightarrow 621; 589 \Rightarrow 598;$   
 $743 \Rightarrow 734; 468 \Rightarrow 486;$   
 $297 \Rightarrow 279$   
 $62 \boxed{1}; 73 \boxed{4}; 27 \boxed{9}$

143. (e) Second lowest number  $\Rightarrow 46 \boxed{8}$   
Highest number  $\Rightarrow 7 \boxed{4} 3$   
 $\frac{8}{4} = 2$

144. (b)  $612 \Rightarrow 621; 589 \Rightarrow 985;$   
 $743 \Rightarrow 743; 468 \Rightarrow 864;$   
 $297 \Rightarrow 972$   
Highest number  $\Rightarrow 985 \Rightarrow 589$

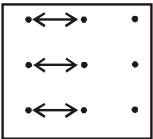
145. (b)  $297 < 468 < 589 < \boxed{612} < 743$   
 $6 + 1 + 2 = 9$

(146-150):

| Friend | City    | Profession        |
|--------|---------|-------------------|
| L      | Chennai | Lecturer          |
| M      | Pune    | Banker            |
| N      | Nashik  | Psychologist      |
| O      | Chennai | Lawyer            |
| P      | Nashik  | Doctor            |
| Q      | Pune    | Software Engineer |

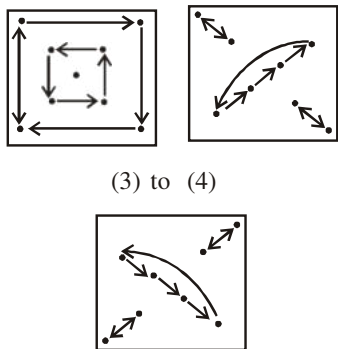
146. (a) L is a Lecturer by profession  
147. (b) N and P work in Nashik.  
148. (e) The combination O – Chennai – Lawyer is correct.  
149. (b) N is a Psychologist.  
150. (a) O is a Lawyer.  
151. (e) The following changes occur in the subsequent figures:  
(1) to (2) (2) to (3)  
(4) to (5) (5) to (6)

(3) to (4)

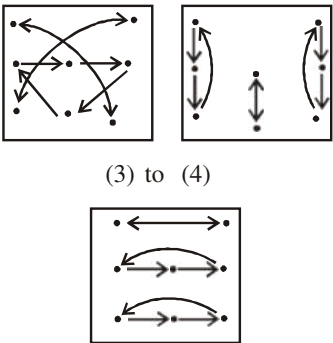


152. (c) In each subsequent figure all the designs move in clockwise direction and in the first step the last design is replaced with a new design and in the second step the first design is replaced with a new design. Similarly, the second last design and second design are replaced with new designs alternately.
153. (b) In each subsequent figure the cross sign and square move in clockwise direction.
154. (a) In the subsequent figures the design (T) rotates respectively  $45^\circ, 90^\circ, 135^\circ, 180^\circ, 225^\circ$  ..... anti-clockwise and the arrow reverses its direction in each subsequent figure. The design (C) moves respectively one step clockwise, one step anti-clockwise for three figures and again one step clockwise.
155. (a) In each subsequent figure the dot moves in clockwise direction. one new design appears at the lower left corner and in the next figure it rotates through  $90^\circ$  anticlockwise. In the first step the second, the third and the fourth angles are inverted while in the second step the first and the last angles are inverted.
156. (b) From Problem Figure (1) to (2) the design at upper left corner is inverted and the design at upper right corner is replaced with a new design while the middle and lower left corner designs interchange positions. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

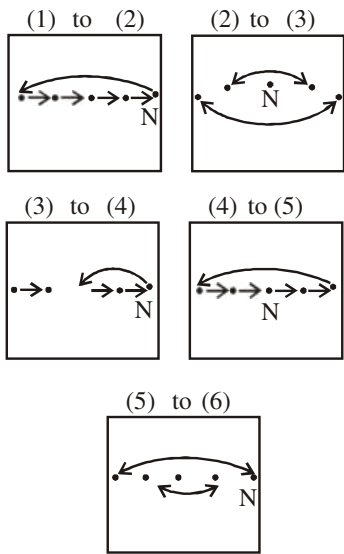
157. (d) In the subsequent figures the square moves respectively one-half, one, one and a half, two and two and a half steps in clockwise direction, the design (T) moves one step in clockwise direction and it is replaced with new design after every two figures. The line segment rotates through  $45^\circ$  and  $135^\circ$  clockwise alternately.
158. (d) The following changes occur in the subsequent figures:  
(1) to (2) (2) to (3)  
(4) to (5) (5) to (6)



159. (e) The following changes occur in the subsequent figures:  
(1) to (2) (2) to (3)  
(4) to (5) (5) to (6)



160. (c) The following changes occur in the subsequent figures:



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Time : 135 minutes

Max. Marks : 200

## General Awareness

1. Which of the following is NOT a part of India's Money Market?
  - (a) Bill Markets
  - (b) Call Money Market
  - (c) Banks
  - (d) Mutual Funds
  - (e) Indian Gold Council
2. Which of the following is the objective of the project "Bhoomi Keralam" launched by the State Government?
  - (a) To conduct a survey of the land
  - (b) To bring those people back who have left the State and settled in other States
  - (c) To provide financial security to farmers who are in distress
  - (d) To identify those tribals who need jobs or financial assistance
  - (e) None of these
3. Which of the following States introduced a high tech food grain rationing system to ensure timely supply of the foodgrains to people living below poverty line?
  - (a) Maharashtra
  - (b) Tamil Nadu
  - (c) Delhi
  - (d) West Bengal
  - (e) Karnataka
4. Which of the following countries adopted its new constitution recently?
  - (a) Bangladesh
  - (b) Mexico
  - (c) South Africa
  - (d) North Korea
  - (e) None of these
5. Which of the following is/are NOT the feature(s) of India's Foreign Trade Policy (2004 to 2009)?
  - A. To double India's percentage share of global trade from present 0.7 per cent to 1.5 per cent by 2009
  - B. Simplifying the procedures and bringing down the cost
  - C. Make SAARC countries India's most preferred foreign trade partners by 2009
  - (a) Only (A)
  - (b) Only (B)
  - (c) Only (C)
  - (d) All (A), (B) and (C)
  - (e) Only (A) and (C)
6. Which of the following States will soon have its first Civil Airports?
  - (a) Jammu and Kashmir
  - (b) Maharashtra
  - (c) Assam
  - (d) Meghalaya
  - (e) Sikkim
7. Which of the following was/were the objective(s) of the Mission Chandrayaan I?
  - A. Preparing dimensional atlas of the lunar surface
  - B. Chemical mapping of the entire lunar surface
  - C. Locating minerals in the soil of the moon
  - (a) Only (A)
  - (b) Only (B)
  - (c) Only (C)
  - (d) All (A), (B) and (C)
  - (e) None of these
8. Which of the following States got its first Rail link recently?
  - (a) Haryana
  - (b) Arunachal Pradesh
  - (c) Sikkim
  - (d) Manipur
  - (e) Jammu and Kashmir
9. Who amongst the following made the 41st test century of his career recently?
  - (a) Saurav Ganguly
  - (b) V.V.S. Laxman
  - (c) Rahul Dravid
  - (d) Sachin Tendulkar
  - (e) None of these
10. Stephen Harper whose name was in news recently is the
  - (a) President of Canada
  - (b) Prime Minister of Canada
  - (c) President of Italy
  - (d) Prime Minister of Switzerland
  - (e) Foreign Minister of U.S.A.
11. Barack Hussein Obama belongs to which of the following political parties?
  - (a) Republican
  - (b) Democratic
  - (c) Labour
  - (d) American National Congress
  - (e) None of these
12. Which of the following awards was given to Pt. Bhimsen Joshi recently (in 2008)?
  - (a) Padma Bhushan
  - (b) Sangit Natak Academy Award
  - (c) Maharashtra Bhushan
  - (d) Karnataka Ratna
  - (e) Bharat Ratna

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13. Which of the following State Government has announced that it will provide a special package of incentives to Employment Intensive Industries?
  - (a) Punjab (b) Karnataka
  - (c) Tamil Nadu (d) Uttar Pradesh
  - (e) Bihar
14. Who amongst the following is the author of the book "The exile"?
  - (a) B. G. Verghese (b) Philip Roth
  - (c) Aravind Adiga (d) Navtej Sarna
  - (e) None of these
15. Which of the following nations has decided to increase its cooperation in the field of energy with India?
  - (a) Russia (b) China
  - (c) Bangladesh (d) Nepal
  - (e) Japan
16. Which of the following is NOT a fertiliser product?
  - (a) Urea
  - (b) Murate of Potash
  - (c) Di Amonium Phosphate
  - (d) Calcium Carbonate
  - (e) All are fertilisers
17. Which of the following programme has been implemented in all the districts of the country?
  - (a) Sarva Siksha Abhiyan
  - (b) Navodaya Vidhyalay
  - (c) Ultra Mega Power Project
  - (d) Rajiv Gandhi Grameen Vidyuthikaran Yojana
  - (e) National Rural Employment Guarantee Programme
18. The third India, Brazil and South Africa (IBSA) summit took place in which of the following cities recently?
  - (a) Brasilia (b) New Delhi
  - (c) Sun City (d) Salvador
  - (e) Durban
19. A Rs. 35,000 crore JSW Steel Plant project was inaugurated in West Bengal recently. The project is setup/developed in
  - (a) Singur (b) Nandigram
  - (c) Salboni (d) Malda
  - (e) Joynagar
20. The Government of India decided to provide a bonus price of Rs. 50 per quintal on which of the following products over and above its minimum support price of Rs. 850 per quintal?
  - (a) Wheat (b) Paddy
  - (c) Sugarcane (d) Cotton
  - (e) None of these
21. Mohammed Anni Nasheed is the newly elected President of
  - (a) Fiji (b) Maldives
  - (c) Iraq (d) Iran
  - (e) None of these
22. Which of the following is/are the measure(s) taken by the Reserve Bank of India (RBI) to ease the liquidity crunch in the country?
  - A. Cut in Cash Reserve Ratio and Statutory Liquidity Ratio.
  - B. Increase the flow of foreign direct investment
  - C. Supply of additional currency notes in the market.
  - (a) Only (A) (b) Only (B)
  - (c) Only (C) (d) All (A), (B) and (C)
  - (e) None of these
23. Who amongst the following is the winner of the Nobel Prize for Literature in 2008?
  - (a) Jean Marie Gustave Le Clezio
  - (b) Martti Ahtisaari
  - (c) Yoichiro Nambu
  - (d) Francoise Barre Sinoussi
  - (e) None of these
24. A national level commission of India has asked about twenty States to setup which of the following commissions in their States as early as possible?
  - (a) Farmers Commission
  - (b) Women Commission
  - (c) Child Welfare Commission
  - (d) Law Commission
  - (e) None of these
25. Which of the following States has decided to setup Arsenic Removal Plants in all the districts of the State to enable itself to provide arsenic free drinking water to all the people by 2010-11?
  - (a) Karnataka (b) Kerala
  - (c) West Bengal (d) Orissa
  - (e) Maharashtra
26. Which of the following services is NOT provided by the post offices of India?
  - (a) Saving Bank Scheme
  - (b) Retailing of Mutual Funds
  - (c) Sale of Stamp Papers (Judicial)
  - (d) Issuance of Demand Drafts
  - (e) Life Insurance Cover
27. Which of the following diseases is not covered under Integrated Disease Surveillance project?
  - (a) Cholera (b) Tuberculosis
  - (c) AIDS (d) Polio
  - (e) Cancer
28. Tzipi Livini whose name was in news recently is from which of the following countries?
  - (a) Singapore (b) South Korea
  - (c) Austria (d) Israel
  - (e) None of these



29. Who amongst the following is the author of the book "The Name sake"?
- (a) Vikram Seth (b) V.S. Naipaul  
(c) Arun Bhagat (d) Anita Desai  
(e) Jhumpa Lahiri
30. The National Games scheduled in 2011 will be organised in
- (a) Bangaluru (b) Goa  
(c) Kolkata (d) Kochi  
(e) Jaipur
31. Alena D'mintiva of Russia won which of the following titles of tennis after defeating Dinara Safina?
- (a) China Open  
(b) Japan Open  
(c) New Zealand Open  
(d) Sydney International  
(e) None of these
32. Who amongst the following is the Minister of Home Affairs in Union Cabinet of India at present?
- (a) Shivraj Patil (b) Lalu Prasad Yadav  
(c) P. Chidambaram (d) Sharad Pawar  
(e) None of these
33. Dronacharya Award is given for excellence in
- (a) Literacy work (b) Social service  
(c) Coaching in Sports (d) Journalism  
(e) None of these
34. India's Space Rocket Launching Centre is in
- (a) Port Blair (b) Hassan  
(c) Tirupati (d) Kochi  
(e) Sri Harikota
35. Besides USA India has signed Nuclear Agreement with which of the following countries and is named as "Cooperation Agreement for Peaceful uses of Nuclear Energy"?
- (a) Italy (b) Germany  
(c) France (d) Canada  
(e) Australia
36. "Merdeka Cup" is associated with the game of
- (a) Badminton (b) Football  
(c) Hockey (d) Golf  
(e) Tennis
37. Which of the following is TRUE about "Antyodaya Anna Yojana"?
- A. Scheme is for below Poverty Line families  
B. People are provided cooked meals under the scheme  
C. All beneficiaries of National Rural Employment Guarantee Act are covered in this scheme
- (a) Only (A) (b) Only (B)  
(c) Only (C) (d) All (A), (B) and (C)  
(e) None of these
38. World Ozone day is observed on
- (a) 16th September (b) 16th October  
(c) 16th November (d) 26th September  
(e) 26th October
39. Which of the following is NOT a Government sponsored organisation?
- (a) Small Industries Development Bank of India  
(b) NABARD  
(c) National Housing Bank  
(d) ICICI Bank  
(e) All are government sponsored
40. Which of the following state governments, in January 2009, created a new record in the country's power sector by signing three separate memorandums of understanding on a single day?
- (a) Himachal Pradesh (b) Assam  
(c) Karnataka (d) Andhra Pradesh  
(e) None of these

### General English

**DIRECTIONS (Qs. 41-52):** Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you locate them while answering some of the questions.

Govind's father was a rich landlord, who was loved and respected by all his tenants. When he died, he left large tracts of land to Govind. But Govind did not **spend** a single day looking after his land. He had a funny idea, that there existed a magic potion which, if it was poured on any object would turn it into gold. He spent all his time trying to learn more about this potion. People took advantage of him and cheated him. His wife grew anxious. Given the amount of money Govind was spending, she was sure that they would soon be paupers.

One day, a widely respected sage who had been to the Himalayas came to their town. Govind asked him about the potion. To his surprise the sage answered, "I have learnt how to brew such a potion. But it is a difficult process." "Tell me!" insisted Govind, hardly able to believe his luck. "You have to collect the dew which settles on the leaves of a banana tree every morning during winter. There is a condition though. The tree should be planted and watered regularly with your own hands. Store the collected dew in an earthen vessel and when you have five litres, bring it to me. I will recite a sacred mantra to transform the dew into the potion. A drop of the potion will be sufficient to change any object into gold."

Govind was worried "Winter is only for a few months in the year. It will take me years to collect the dew." "you can plant as many trees as you want," replied the sage. Govind went home and after talking to his wife, began clearing the large fields which has been **lying** vacant for years. He planted rows of banana saplings. He **tended** them with great care. His wife helped him too.

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She would take the banana crop to market and get a good price. Over the years the plantation grew and finally after six years Govind had five litres of dew. He went to the sage who smiled, uttered a mantra and sprinkled a few drops of dew on a copper vessel. To Govind's **dismay**, nothing happened. "you have cheated me!" he shouted at the sage.

The sage however smiled. Govind's wife then came forward with a box. The sage opened it and revealed stacks of gold coins inside. Turning to Govind he said, "you worked hard on your land and created a plantation. Your wife sold 'the produce in the market. It was your hard work which created this wealth, not magic. If I had told you this earlier, you would not have listened." Govind understood the wisdom behind the sage's words and worked even harder from that day on.

41. Why did Govind's father give him large plots of land?
  - (a) It was his way of instilling a sense of responsibility in his son
  - (b) Govind was his only son and sole heir
  - (c) To provide Govind with sufficient funds to pursue his interest of discovering a magic potion
  - (d) He wanted Govind to continue to look after the tenants
  - (e) None of these
42. Which of the following can be said about the sage?
  - (a) He was cunning and plotted with Govind's wife to cheat him.
  - (b) He had no magical powers as such and used to swindle people
  - (c) He was a good judge of people
  - (d) He did not deserve his good reputation
  - (e) He was dishonest because he had cheated Govind out of his gold
43. Why was Govind's wife worried ?
  - (a) Govind had no knowledge of farming and could not cultivate the land he had inherited from his father
  - (b) Govind had not friends because he was obsessed with finding a potion which would turn any thing into gold
  - (c) Govind was only interested in studying under different sages and neglected his family duties
  - (d) Since Govind had devoted all his time and wealth to finding a magic potion they would soon be poor
  - (e) Govind's experiments to find a magic potion were dangerous
44. Why did Govind's wife help him in the fields?
  - A. To support her husband in his endeavour to find a magic potion.
  - B. The sage had advised her to help her husband succeed.
  - C. He needed someone to help him collect the dew.

- (a) only (B)                      (b) only (A)
- (c) Both (A) and (B)    (d) All (A), (B) and (C)
- (e) None of these
45. Why did Govind decide to cultivate a banana crop?
  - (a) The soil of his land was suitable only for cultivating bananas
  - (b) It was the most highly priced commodity in the region
  - (c) It could be grown at any time of the year including winter
  - (d) His wife pressurised him to do so
  - (e) The ingredient for the magic potion could only be obtained from a banana tree
46. What made Govind angry with the sage?
  - (a) The sage had conspired with Govind's wife against him
  - (b) He had forgotten the magic spell and all Govind's hard work was in vain
  - (c) He had lost a good deal of money in cultivating bananas
  - (d) The sage had made a fool of him in front of other villagers
  - (e) None of these
47. How did Govind acquire his dream of gold finally ?
  - (a) The sage gave him gold as a reward for his hard work was in vain
  - (b) His wife diligently saved the gold he had received from his father
  - (c) By selling the banana plantation
  - (d) His wife sold bananas at a higher price than others did
  - (e) None of these
48. Which of the following is **TRUE** in the context of the passage?
  - A. Govind was easily fooled by people
  - B. Govind was preserving by nature
  - C. The sage had never actually been to the Himalayas
  - (a) Only (A)                      (b) Both (A) and (B)
  - (c) Only (C)                      (d) Both (A) and (C)
  - (e) None of these

**DIRECTIONS (Qs. 49-50) :** Choose the word which is most similar in meaning to the word printed in bold as used in the passage.

**49. SPEND**

- (a) pay                              (b) bought
- (c) devote                        (d) settle
- (e) empty

**50. LYING**

- (a) sleeping                      (b) dishonest
- (c) relaxing                      (d) remaining
- (e) untruthful

**DIRECTIONS (Qs. 51-52) :** Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.

**51. DISMAY**

- (a) joy (b) interest  
(c) desire (d) humour  
(e) luck

**52. TENDED**

- (a) negligible (b) watched  
(c) inclined (d) ignored  
(e) spoil

**DIRECTIONS (Qs. 53-57) :** Which of the following phrases (a), (b), (c) and (d) given below each sentences should replace the phrase printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and 'No correction is required', mark (e) as the answer.

53. **Starting out my** own business at this time would affect the financial stability of my family.  
(a) Starting up my (b) For starting with  
(c) To start out mine (d) By starting my  
(e) No correction required
54. **Use a tactic for** mixing the inferior with good quality rice is dishonest and you will lose your license.  
(a) Using tacti as (b) Using a tactic like  
(c) To use tactics (d) Used to tactics like  
(e) No correction required
55. The company **will invest more** six hundred crores in the next five years to expand its operations in Britain.  
(a) will future invest  
(b) has invested more than  
(c) have invested over  
(d) will be invested above  
(e) No correction required
56. Several of our projects **have delayed because** the equipment we ordered was delivered late.  
(a) have been delayed when  
(b) delayed because of  
(c) are delayed since  
(d) were delayed with  
(e) No correction required
57. The committee has ruled out the **possible raising** taxes for this financial year.  
(a) possibly raised  
(b) possible rise of  
(c) possibility to raise  
(d) possibility of raising  
(e) No correction required

**DIRECTIONS (Qs. 58-62) :** In each question below a sentence with four words printed in bold type is given. These are numbered as (a), (b), (c) and (d). One of these four words printed in bold may be either wrongly spelt or inappropriate in the context of the sentence. Find out the word which is wrongly spelt or inappropriate if any. The number of that word is your answer. If all the words printed in bold are correctly spelt and also appropriate in the context of the sentence, mark (e) i.e. 'All correct' as your answer.

58. Under **existing** (a) / regulations we are not **permitted** (b) / to **owe** (c) / more than a forty percent **share** (d) / of the family business. All correct (e).
59. In case of any land **dispute** (a) / panchayat **officials** (b) / will **determine** (c) / how the property is to be **dividend** (d) / All correct (e).
60. The World Bank has **consented** (a) / to **sanction** (b) / the **necessary** (c) / **finance** (d) / for the project. All correct (e).
61. To **obtain** (a) / a refund you will have to **fill** (b) / a **claim** (c) / with the **appropriate** (d) / authority. All correct (e).
62. Experts **predict** (a) / there will be **shortage** (b) / of **investment** (c) / in the **infrastructure** (d) / sector. All correct (c).

**DIRECTIONS (Qs. 63-67) :** Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- A. The hall was filled with children, teachers, students, family members and those who were close to him.
- B. Normally such ceremonies are attended by important people like industrialists, politicians and VIP's.
- C. What I saw when I stepped into the hall amazed me.
- D. I went home with the feeling that it was a most unusual oath taking ceremony with only those who were 'important' to him present.
- E. When he was elected President, he invited me to the swearing in ceremony in the Central Hall of Parliament.
- F. However in this case everyone who attended the ceremony seemed to know him personally.
63. Which of the following should be the **FIRST** sentence after rearrangement ?  
(a) A (b) B  
(c) C (d) D  
(e) E
64. Which of the following should be the **SECOND** sentence after rearrangement ?  
(a) B (b) C  
(c) D (d) E  
(e) F

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65. Which of the following should be the **THIRD** sentence after rearrangement ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E
66. Which of the following should be the **FIFTH** sentence after rearrangement ?  
 (a) B (b) C  
 (c) D (d) E  
 (e) F
67. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement ?  
 (a) A (b) B  
 (c) C (d) D  
 (e) E

**DIRECTIONS (Qs. 68-72) :** Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (e). (Ignore errors of punctuation, if any.)

68. His proposal had (a) / to be send to (b) / the President of the company (c) / for her approval (d). No error (e).
69. Each tuesday evening we visited (a) / the farmers in the area (b) / and held a meeting (c) / to discuss the problems they faced (c). No error (e).
70. Though our training facilities (a) / are limited only a (b) / few employees have been (c) / selected for training (d). No error (e).
71. During the interview (a) / the panel asked me (b) / several technical questions (c) / and I answered all of it (d). No error (e).
72. He decided to work for (a) / an NGO, but most of his (b) / classmates opted for high paid (c) / jobs in multinational companies (d). No error (e).

**DIRECTIONS (Qs. 73-80) :** In the following passage there are blanks each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate words in each case.

When we **73** started thirty years ago in 1977, we did not know anything about how to run a bank for the poor. We therefore looked at how others ran their operations and **74** from their mistakes. In Bangladesh, conventional banks and credit co-operatives always **75** lump sum repayments. This created **76** problems because repaying in a lump sum was a mental hurdle for borrowers. They tended to delay repayment and get further into debt in the **77**. In the end they usually **78** totally on the loan, which was a loss to the bank. In structuring our own loans, I decided to ask for a daily payment, Monitoring repayment was **79** and it filled people with **80** that they could repay their loans.

73. (a) firstly (b) freshly  
 (c) foremost (d) initially  
 (e) recently
74. (a) copied (b) observed  
 (c) learned (d) understood  
 (e) improving
75. (a) asked (b) insisted  
 (c) demanded (d) settled  
 (e) lend
76. (a) severe (b) no  
 (c) additionally (d) variety  
 (e) plenty
77. (a) time (b) process  
 (c) return (d) event  
 (e) action
78. (a) neglected (b) abandoned  
 (c) defaulted (d) depended  
 (e) disappointed
79. (a) benefit (b) easier  
 (c) reckless (d) disorganised  
 (e) secure
80. (a) sense (b) confidence  
 (c) challenge (d) doubt  
 (e) believe

### Quantitative Aptitude

**DIRECTIONS (Qs. 81-90):** What should come in place of the question mark (?) in the following questions ?

81.  $(786 \times 64) \div 48 = ?$   
 (a) 1050 (b) 1024  
 (c) 1048 (d) 1036  
 (e) None of these
82.  $\sqrt[3]{13824} \times \sqrt{7} = 864$   
 (a) 1296 (b) 1156  
 (c) 1600 (d) 1024  
 (e) None of these
83. 60% of 20% of  $\frac{3}{5}$  th of ? = 450  
 (a) 6200 (b) 6,240  
 (c) 6150 (d) 6275  
 (e) None of these
84.  $196 \times 948 \div 158 = ?$   
 (a) 1156 (b) 1200  
 (c) 1188 (d) 1176  
 (e) None of these
85.  $3.5 + 11.25 \times 4.5 - 32.5 = ?$   
 (a) 18.275 (b) 21.625  
 (c) 32.375 (d) 25.45  
 (e) None of these

86.  $\frac{\sqrt{4096} \times 56}{764 - 652} = ?$   
 (a) 36 (b) 48  
 (c) 32 (d) 44  
 (e) None of these
87.  $(98360 + 25845 - 36540) \div 2500 = ?$   
 (a) 36.585 (b) 30.082  
 (c) 32.085 (d) 35.066  
 (e) None of these
88.  $7414 + 3698 + 1257 + 1869 = ?$   
 (a) 14328 (b) 14438  
 (c) 13428 (d) 13248  
 (e) None of these
89.  $(91)^2 + (41)^2 - \sqrt{7} = 9858$   
 (a) 11236 (b) 10816  
 (c) 10404 (d) 9604  
 (e) None of these
90.  $(2640 \div 48) \times (2240 \div 35) = ?$   
 (a) 3520 (b) 3515  
 (c) 3495 (d) 3490  
 (e) None of these
91. 121 117 108 92 67 ?  
 (a) 31 (b) 29  
 (c) 41 (d) 37  
 (e) None of these
92. 50 26 14 ? 5 3.5  
 (a) 6 (b) 8  
 (c) 10 (d) 12  
 (e) None of these
93. 3 23 43 ? 83 103  
 (a) 33 (b) 53  
 (c) 63 (d) 73  
 (e) None of these
94. 748 737 715 682 638 ?  
 (a) 594 (b) 572  
 (c) 581 (d) 563  
 (e) None of these
95. 1 9 25 49 81 ? 169  
 (a) 100 (b) 64  
 (c) 81 (d) 121  
 (e) None of these
96. The ratio of ducks and frogs in a pond is 37 : 39 respectively. The average number of ducks and frogs in the pond is 152. What is the number of frogs in the pond ?  
 (a) 148 (b) 152  
 (c) 156 (d) 144  
 (e) None of these
97. In how many different ways can the letters of the word 'ARISE' be arranged ?  
 (a) 90 (b) 60  
 (c) 180 (d) 120  
 (e) None of these
98. The number of employees in Companies A, B and C are in a ratio of 4 : 5 : 6 respectively. If the number of employees in the Companies is increased by 25%, 30% and 50% respectively, what will be the new ratio of employees working in Companies A, B and C respectively ?  
 (a) 13 : 10 : 18 (b) 10 : 13 : 17  
 (c) 13 : 15 : 18 (d) Cannot be determined  
 (e) None of these
99. The average of five positive numbers is 213. The average of the first two numbers is 233.5 and the average of last two numbers is 271. What is the third number ?  
 (a) 64 (b) 56  
 (c) 106 (d) Cannot be determined  
 (e) None of these
100. Sonali invests 15% of her monthly salary in insurance policies. She spends 55% of her monthly salary in shopping and on household expenses. She saves the remaining amount of Rs. 12,750. What is Sonali's monthly income ?  
 (a) Rs. 42,500 (b) Rs. 38,800  
 (c) Rs. 40,000 (d) Rs. 35,500  
 (e) None of these

**DIRECTIONS (Qs. 101-105):** Study the following table carefully to answer the questions given below it.

**Total Residents and Percentage of Woman out of those Living in Various Societies Over the Years**

| Residents | A          |                 | B          |                 | C          |                 | D          |                 | E          |                 |
|-----------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| Years     | % of Women | Total residents | % of Women | Total residents | % of Women | Total residents | % of Women | Total residents | % of Women | Total residents |
| 2002      | 44         | 250             | 35         | 280             | 35         | 200             | 40         | 180             | 40         | 220             |
| 2003      | 45         | 260             | 30         | 270             | 40         | 250             | 60         | 170             | 65         | 240             |
| 2004      | 35         | 240             | 45         | 300             | 45         | 260             | 70         | 200             | 50         | 250             |
| 2005      | 40         | 250             | 55         | 320             | 55         | 280             | 60         | 210             | 45         | 220             |
| 2006      | 50         | 220             | 50         | 300             | 55         | 240             | 65         | 220             | 50         | 240             |
| 2007      | 60         | 240             | 60         | 340             | 60         | 250             | 60         | 230             | 40         | 260             |



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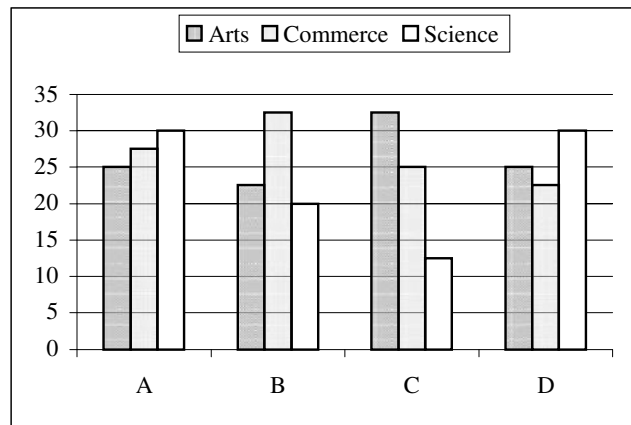
101. What is the difference between the total residents living in all the societies together in the year 2006 and the total residents living in all the societies together in the year 2007?  
 (a) 100 (b) 85  
 (c) 70 (d) 50  
 (e) None of these
102. What is the average number of men living in all the societies together in the year 2005?  
 (a) 110 (b) 125  
 (c) 115 (d) 120  
 (e) None of these
103. What is the respective ratio of men living in Society C in the year 2002 to the year 2003 ?  
 (a) 15 : 13 (b) 11 : 15  
 (c) 15 : 11 (d) 13 : 15  
 (e) None of these
104. What is the average number of women living in all the societies together in the year 2005 ?  
 (a) 130 (b) 131  
 (c) 125 (d) 140  
 (e) None of these
105. What is the respective ratio of the number of women to the total residents in Society E over the years ?  
 (a) 69 : 143 (b) 344 : 715  
 (c) 173 : 358 (d) 346 : 717  
 (e) None of these
106. What **approximate** amount of compound interest can be obtained on an amount of Rs. 9, 650 at the rate of 6% p.a. at the end of 3 years ?  
 (a) Rs. 1,737 (b) Rs. 1,920  
 (c) Rs. 1,720 (d) Rs. 1, 860  
 (e) Rs. 1,843
107. A milkman sells 120 litres of milk for Rs. 3,360 and he sells 240 litres of milk for Rs. 6,120. How much concession does the trader give per litre of milk, when he sells 240 litres of milk ?  
 (a) Rs. 2 (b) Rs. 3.5  
 (c) Rs. 2.5 (d) Rs. 1.5  
 (e) None of these
108. When 3,626 is divided by the square of a number and the answer so obtained is multiplied by 32, the final answer obtained is 2,368. What is the number ?  
 (a) 7 (b) 36  
 (c) 49 (d) 6  
 (e) None of these
109. The sum of the digits of a two digit number is 14. The difference between the first digit and the second digit of the two digit number is 2. What is the product of the two digits of the two digit number ?

- (a) 56 (b) 48  
 (c) 45 (d) Cannot be determined  
 (e) None of these

110. A car runs at the speed of 50 kmph when not serviced and runs at 60 kmph, when serviced. After servicing the car covers a certain distance in 6 hours. How much time will the car take to cover the same distance when not serviced ?  
 (a) 8.2 hours (b) 6.5 hours  
 (c) 8 hours (d) 7.2 hours  
 (e) None of these

**DIRECTIONS (Qs. 111-115) :** Study the following graph and answer the questions given below it :

**Number of Students from Various Faculties studying in Various Colleges (Number in Thousands)**



111. What is the ratio of the number of students from the faculty of Arts studying in college C to the number of students from the faculty of Arts studying in college D ?  
 (a) 13 : 9 (b) 13 : 10  
 (c) 9 : 13 (d) 10 : 13  
 (e) None of these
112. What is the average number of students studying in college A from all the faculties together ?  
 (a) 26,000 (b) 28,500  
 (c) 26,500 (d) 27,000  
 (e) None of these
113. What is the average number of students from the faculty of Arts from all the colleges together ?  
 (a) 26,250 (b) 27,250  
 (c) 27,000 (d) 26,500  
 (e) None of these
114. The students from the faculty of Commerce studying in college B are **approximately** what per cent of the total number of students in the same college ?  
 (a) 30 (b) 35  
 (c) 43 (d) 48  
 (e) 53

115. What is the difference between the total number of students from the faculty of Commerce from all the colleges together and the total number of students from the faculty of Science from all the colleges together ?
- (a) 20,000 (b) 10,000  
(c) 25,000 (d) 15,000  
(e) None of these

**DIRECTIONS (Qs. 116-120) :** What approximate value should come in place of the question mark (?) in the following questions ? (You are not expected to calculate the exact value.)

116.  $\sqrt{964} \times \sqrt{348} = ?$   
(a) 575 (b) 570  
(c) 586 (d) 550  
(e) 579
117.  $37.35 + 13.064 \times 3.46 = ?$   
(a) 89 (b) 83  
(c) 76 (d) 79  
(e) 85
118.  $(4863 + 1174 + 2829) \div 756 = ?$   
(a) 18 (b) 16  
(c) 12 (d) 9  
(e) 22
119.  $54 \times 746 \div 32 = ?$   
(a) 1259 (b) 1268  
(c) 1196 (d) 1248  
(e) 1236
120.  $[(1.5)^2 \times (3.2)^2] \div 2.3 = ?$   
(a) 6 (b) 4  
(c) 12 (d) 10  
(e) 16

### Reasoning Ability

121. How many meaningful three letter English words can be formed with the letters AER, using each letter only once in each word ?  
(a) None (b) One  
(c) Two (d) Three  
(e) Four
122. Each vowel of the word ADJECTIVE is substituted with the next letter of the English alphabetical series, and each consonant is substituted with the letter preceding it. How many vowels are present in the new arrangement ?  
(a) Four (b) One  
(c) Two (d) Three  
(e) None of these

123. In a certain code 'na pa ka so' means 'birds fly very high', 'ri so la pa' means 'birds are very beautiful' and 'ti me ka bo' means 'the parrots could fly'. Which of the following is the code for 'high' in that language ?  
(a) na (b) ka  
(c) bo (d) so  
(e) None of these
124. If the digits in the number 86435192 are arranged in ascending order, what will be the difference between the digits which are second from the right and fourth from the left in the new arrangement ?  
(a) One (b) Two  
(c) Three (d) Four  
(e) None
125. If it is possible to make only one meaningful word with the Third, Seventh, Eighth and Tenth letters of the word COMPATIBILITY, which of the following would be the last letter of that word ? If no such word can be made, give 'X' as your answer and if more than one such word can be formed, give your answer as 'Y'.  
(a) I (b) B  
(c) L (d) X  
(e) Y
126. In a certain code FINE is written HGPC. How is SLIT written in that code ?  
(a) UTGR (b) UTKR  
(c) TUGR (d) RUGT  
(e) None of these
127. If in a certain language LATE is coded as 8 & 4 \$ and HIRE is coded as 7\*3\$ then how will HAIL be coded in the same language ?  
(a) 7 & 8\* (b) &7\*8  
(c) 7\*&8 (d) 7&\*8  
(e) None of these
128. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group ?  
(a) Stem (b) Tree  
(c) Root (d) Branch  
(e) Leaf
129. If 'Apple' is called 'Orange', 'Orange' is called 'Peach', 'Peach' is called 'Patato', 'Potato' is called 'Banana', 'Banana' is called 'Papaya' and 'Papaya' is called 'Guava', which of the following grows underground ?  
(a) Potato (b) Guava  
(c) Apple (d) Banana  
(e) None of these

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130. How many such pairs of letters are there in word ENGLISH, each of which has as many letters between its two letters as there are between them in the English alphabets ?

(a) None (b) One  
(c) Two (d) Three  
(e) More than three

**DIRECTIONS (Qs. 131-135) :** In each of the questions below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read both of the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Read the statements and the conclusions which follow it and give answer

- (a) If only conclusion I is true.  
(b) If only conclusion II is true.  
(c) If either conclusion I or conclusion II is true.  
(d) If neither conclusion I nor conclusion II is true.  
(e) If both conclusions I and II are true.

**131. Statements :**

All stars are suns.  
Some suns are planets.  
All planets are satellites.

**Conclusions :**

- I. Some satellites are stars.  
II. No star is a satellite.

**132. Statements :**

All curtains are rods.  
Some rods are sheets.  
Some sheets are pillows.

**Conclusions:**

- I. Some pillows are rods.  
II. Some rods are curtains.

**133. Statements :**

All switches are plugs.  
Some plugs are bulbs.  
All bulbs are sockets.

**Conclusions:**

- I. Some sockets are plugs.  
II. Some plugs are switches.

**134. Statements :**

All fishes are birds.  
All birds are rats.  
All rats are cows.

**Conclusions :**

- I. All birds are cows.  
II. All rats are fishes.

**135. Statements :**

Some walls are windows.  
Some windows are doors.  
All doors are roofs.

**Conclusions :**

- I. Some doors are walls.  
II. No roof is a window.

**DIRECTIONS (Qs. 136-140) :** Study the sets of numbers given below and answer the questions, which follow :

489 541 654 953 783

136. If in each number, all the three digits are arranged in ascending order, which of the following will be the lowest number ?

(a) 489 (b) 541  
(c) 654 (d) 953  
(e) 783

137. If five is subtracted from each of the numbers, which of the following numbers will be the difference between the second digit of second highest number and the second digit of the highest number ?

(a) Zero (b) 3  
(c) 1 (d) 4  
(e) 2

138. If in each number the first and the second digits are interchanged, which will be the third highest number ?

(a) 489 (b) 541  
(c) 654 (d) 953  
(e) 783

139. Which of the following numbers will be obtained if the first digit of lowest number is subtracted from the second digit of highest number after adding one to each of the numbers?

(a) 1 (b) 2  
(c) 3 (d) 4  
(e) 5

140. If in each number, the first and the last digits are interchanged, which of the following will be the second highest number ?

(a) 489 (b) 541  
(c) 654 (d) 953  
(e) 783

**DIRECTIONS (Qs. 141-145) :** Read the following information carefully and answer the questions, which follow :

**'A - B' means 'A is father of B'.**

**'A + B' means 'A is daughter of B'.**

**'A ÷ B' means 'A is son of B'.**

**'A × B' means 'A is wife of B'.**

141. How is P related to T in the expression 'P + S - T' ?  
 (a) Sister (b) Wife  
 (c) Son (d) Daughter  
 (e) None of these
142. In the expression 'P × Q - T' how is T related to P ?  
 (a) Daughter (b) Sister  
 (c) Mother (d) Can't be determined  
 (e) None of these
143. Which of the following means T is wife of P ?  
 (a)  $P \times S \div T$  (b)  $P \div S \times T$   
 (c)  $P - S \div T$  (d)  $P + T \div S$   
 (e) None of these
144. Which of the following means P is grandson of S ?  
 (a)  $P + Q - S$  (b)  $P \div Q \times S$   
 (c)  $P \div Q + S$  (d)  $P \times Q \div S$   
 (e) None of these
145. In the expression 'P + Q × T' how is T related to P ?  
 (a) Mother (b) Father  
 (c) Son (d) Brother  
 (e) None of these

**DIRECTIONS (Qs. 146-150) :** In each question a group of letters is given followed by four combinations of number/symbol numbered (a), (b), (c) and (d). Letters are to be coded as per the scheme and conditions given below. You have to find out the serial number of the combination, which represents the letter group. Serial number of that combination is your answer. If none of the combinations is correct, your answer is (e) i.e. None of these.

| Letters           | Q | M | S | I | N | G  | D | K | A | L | P | R | B | J | E |
|-------------------|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|
| Number/<br>Symbol | 7 | @ | 4 | # | % | \$ | 6 | 1 | 2 | £ | 5 | * | 9 | 8 | 3 |

**Conditions :**

- (i) If the first letter is a consonant and the last a vowel, both are to be coded as the code of the vowel.
- (ii) If the first letter is vowel and the last a consonant, the codes for the first and the last are to be interchanged.
- (iii) If no vowel is present in the group of letters, the second and the fifth letters are to be coded as ©.

**146. BARNIS**

- (a) 9 2 \* % # 4 (b) 9 2 4 # \* %  
 (c) 9 2 \* # % 9 (d) 4 2 \* # % 4  
 (e) None of these

**147. DMBNIA**

- (a) 6 @ 9 % # 2 (b) 2 @ 9 % # 2  
 (c) 2 @ 9 % # 6 (d) 2 © 9 % # 2  
 (e) None of these

**148. IJBRLG**

- (a) # 8 9 \* £ \$ (b) # 8 9 \* £ #

- (c) \$ 8 9 \* £ # (d) \$ 8 9 \* £ \$  
 (e) None of these

**149. BKGQJN**

- (a) 9 © \$ 7 © % (b) © 9 \$ 7 % ©  
 (c) 9 1 \$ 7 8 % (d) % 1 \$ 7 8 9  
 (e) None of these

**150. EGAKRL**

- (a) # £ \$ 2 1 \* (b) £ \$ 2 1 \* 3  
 (c) £ \$ 2 1 \* # (d) # £ \$ 2 1 #  
 (e) None of these

**DIRECTIONS (Qs. 151-155) :** Study the following information carefully to answer these questions.

Eight persons A, B, C, D, E, F, G and H work for three different companies namely X, Y and Z. Not more than three persons work for a company. There are only two ladies in the group who have different specialisations and work for different companies. Of the group of friends, two have specialisation in each HR, Finance and Marketing. One member is an engineer and one is a doctor. H is an HR specialist and works with a Marketing specialist B who does not work for company Y. C is an engineer and his sister works in company Z. D is a specialist in HR working in company X while her friend G is a finance specialist and works for company Z. No two persons having the same specialisation work together. Marketing specialist F work for company Y and his friend A who is a Finance expert works for company X in which only two specialists work. No lady is a marketing specialist or a doctor.

151. Which of the following combinations is correct ?

- (a) C - Z - Engineer (b) E - X - Doctor  
 (c) H - X - HR (d) C - Y - Engineer  
 (e) None of these

152. For which of the following companies does C work?

- (a) Y (b) X  
 (c) Z (d) Data inadequate  
 (e) None of these

153. Which of the following pairs represents the two ladies in the group ?

- (a) A and D (b) B and D  
 (c) D and G (d) Data inadequate  
 (e) None of these

154. Which of the following represents the pair working in the same company ?

- (a) D and C (b) A and B  
 (c) A and E (d) H and F  
 (e) None of these

155. Who amongst the friends is a doctor ?

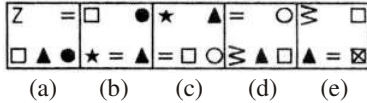
- (a) H (b) E  
 (c) C (d) Either E or C  
 (e) None of these

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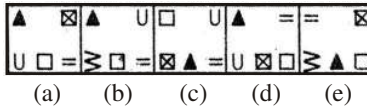
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**DIRECTIONS (Qs. 156-160) :** In each of the questions given below which one of the five answer figures should come after the problem figures if the sequence were continued ?

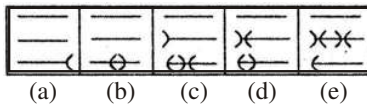
**156. Problem Figures**



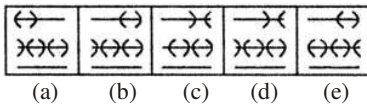
**Answer Figures**



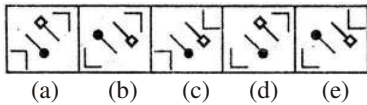
**157. Problem Figures**



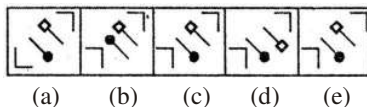
**Answer Figures**



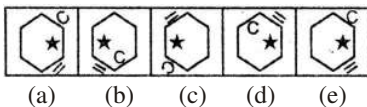
**158. Problem Figures**



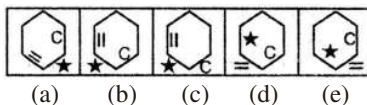
**Answer Figures**



**159. Problem Figures**



**Answer Figures**



**160. Problem Figures**

- (a) (b) (c) (d) (e)

**Answer Figures**

- (a) (b) (c) (d) (e)

**Marketing Aptitude/**

**Computer Knowledge**

161. \_\_\_\_\_ is a set of keywords, symbols, and a system of rules for constructing statements by which humans can communicate the instructions to be executed by a computer.
  - (a) A computer program
  - (b) A programming language
  - (c) An assemble
  - (d) Syntax
  - (e) None of these
162. A printer is this kind of device
  - (a) input
  - (b) word processing
  - (c) processing
  - (d) output
  - (e) None of these
163. This can be another word for program
  - (a) software
  - (b) disk
  - (c) floppy
  - (d) hardware
  - (e) None of these
164. The name of the computer's brain is
  - (a) monitor
  - (b) hardware
  - (c) CPU
  - (d) byte
  - (e) None of these
165. A(n) \_\_\_\_\_ is device that electronically processes data, converting it to information.
  - (a) algorithm
  - (b) computer
  - (c) software
  - (d) program
  - (e) None of these
166. Which of the following are computers that can be carried around easily ?
  - (a) Minicomputers
  - (b) Supercomputers
  - (c) PCs
  - (d) Laptops
  - (e) None of these
167. The secret code that restricts entry to some programs, is
  - (a) password
  - (b) passport
  - (c) entry-code
  - (d) access-code
  - (e) None of these
168. The basic goal of computer process is to convert data into
  - (a) files
  - (b) tables
  - (c) information
  - (d) graphs
  - (e) None of these



169. Where is the disk put in a computer ?  
 (a) In the modem (b) In the hard drive  
 (c) Into the CPU (d) In the disk drive  
 (e) None of these
170. A hard copy of a document is  
 (a) printed on the printer  
 (b) stored on a floppy  
 (c) stored on a CD  
 (d) stored in the hard disk  
 (e) None of these
171. The name that the user gives to a document is referred to as  
 (a) document-name (b) file-name  
 (c) name-given (d) document-identity  
 (e) None of these
172. Restarting a computer that is already on is referred to as  
 (a) shut down (b) cold booting  
 (c) warm booting (d) logging off  
 (e) None of these
173. E-mail (electronic mail) is  
 (a) an internet standard that allows users to upload and download files  
 (b) a real-time typed conversation that takes place on a computer  
 (c) an online area in which users conduct written discussions about a particular subject  
 (d) the transmission of messages and files via a computer network  
 (e) None of these
174. The person who writes and tests computer programs is called a  
 (a) programmer (b) computer scientist  
 (c) software engineer (d) project developer  
 (e) None of these
175. The information you put into the computer is called  
 (a) facts (b) data  
 (c) files (d) directory  
 (e) None of these
176. The output devices make it possible to  
 (a) view or print data (b) store data  
 (c) scan data (d) input data  
 (e) None of these
177. A chat is  
 (a) an internet standard that allows users to upload and download files  
 (b) a typed conversation that takes place on a computer  
 (c) an online area in which users conduct written discussions about a particular subject  
 (d) the transmission of messages and files via a computer network  
 (e) None of these
178. Hardware includes  
 (a) all devices used to input data into a computer  
 (b) sets of instructions that a computer runs or executes  
 (c) the computer and all the devices connected to it that are used to input and output data  
 (d) all devices involved processing information including the central processing unit, memory, and storage  
 (e) None of these
179. The most common method of entering text and numerical data into a computer system is through the use of a  
 (a) keyboard (b) scanner  
 (c) printer (d) plotter  
 (e) None of these
180. Which of the following groups consist of only input devices?  
 (a) Mouse, Keyboard, Monitor  
 (b) Mouse, Keyboard, Printer  
 (c) Mouse, Keyboard, Plotter  
 (d) Mouse, Keyboard, Scanner  
 (e) None of these
181. Marketing is required in banks due to  
 (a) globalisation  
 (b) computerisation  
 (c) increase in population  
 (d) government dictates  
 (e) None of these
182. Marketing is  
 (a) a day-to-day function  
 (b) a one-off affair  
 (c) a one-man show  
 (d) a collective process  
 (e) None of these
183. Qualities needed by a good marketing staff are  
 (a) Aggressiveness (b) Pushy  
 (c) Perseverance (d) Politeness  
 (e) None of these
184. Marketing should be resorted  
 (a) only among rich persons  
 (b) only among the poor  
 (c) only in crowded areas  
 (d) depends on the product  
 (e) depends on the banks

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185. HNI means  
 (a) High Income Individual  
 (b) Honest Marketing Staff  
 (c) High Networth Individual  
 (d) Honest Neutral Individual  
 (e) None of these
186. Marketing strategies means  
 (a) plan for effective marketing  
 (b) type of marketing style  
 (c) market demands  
 (d) All of these  
 (e) None of these
187. Market plan is  
 (a) an action plan for day-to-day marketing  
 (b) effective selling steps  
 (c) effective buying steps  
 (d) a comprehensive documents for marketing strategies  
 (e) All of these
188. The meaning of digital marketing is  
 (a) selling digital goods  
 (b) selling calculators  
 (c) selling through internet  
 (d) All of these  
 (e) None of these
189. Target group means  
 (a) all employees  
 (b) short-listed group  
 (c) all the marketing staff  
 (d) sales representatives  
 (e) group of people likely to buy the identified product
190. The target group for Home Loans are  
 (a) individuals (b) salaried persons  
 (c) businessmen (d) professionals  
 (e) All of these
191. Customer service  
 (a) is an integral part of marketing  
 (b) has no role in marketing  
 (c) is required only by salesmen  
 (d) is not required by salesmen  
 (e) None of these
192. Public relations is  
 (a) part of customer service  
 (b) part of marketing  
 (c) part of image building  
 (d) All of these  
 (e) None of these
193. Bancassurance means  
 (a) assuring to repay bank loans  
 (b) assuring to repay credit card dues  
 (c) assuring to repay home loan dues  
 (d) insurance of banks  
 (e) selling of insurance (assurance) products by a bank
194. Relationship marketing means  
 (a) selling to relatives (b) selling by relatives  
 (c) after sales service (d) cross-selling  
 (e) All of these
195. Motivation means  
 (a) keeping the salesmen happy  
 (b) keeping the staff happy  
 (c) more enthusiasm  
 (d) more team-work  
 (e) All of these
196. Effective communication is  
 (a) not required if demand exceed supply  
 (b) a sine-qua-non for marketing  
 (c) good vocabulary  
 (d) All of these  
 (e) None of these
197. Customisation means  
 (a) products for specific customers  
 (b) good customer services  
 (c) bad customer services  
 (d) after-sales service  
 (e) None of these
198. Marketing can be attractive if  
 (a) salesmen are attractive  
 (b) customers are attractive  
 (c) more customers are attracted  
 (d) All of these  
 (e) None of these
199. Buyer resistance means  
 (a) buyers fighting with the salesmen  
 (b) reluctant salesmen  
 (c) indifferent salesmen  
 (d) hesitant buyers  
 (e) None of these
200. Closing the sale means  
 (a) close down marketing functions  
 (b) stop selling  
 (c) successful completion of a call  
 (d) All of these  
 (e) None of these

[Type text]

| ANSWER KEY |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1          | (e) | 21 | (b) | 41 | (b) | 61 | (b) | 81  | (c) | 101 | (a) | 121 | (c) | 141 | (a) | 161 | (a) | 181 | (a) |
| 2          | (a) | 22 | (a) | 42 | (c) | 62 | (c) | 82  | (a) | 102 | (b) | 122 | (c) | 142 | (d) | 162 | (d) | 182 | (d) |
| 3          | (e) | 23 | (a) | 43 | (d) | 63 | (e) | 83  | (e) | 103 | (d) | 123 | (a) | 143 | (e) | 163 | (a) | 183 | (e) |
| 4          | (e) | 24 | (c) | 44 | (e) | 64 | (a) | 84  | (d) | 104 | (b) | 124 | (d) | 144 | (c) | 164 | (c) | 184 | (d) |
| 5          | (d) | 25 | (c) | 45 | (e) | 65 | (c) | 85  | (b) | 105 | (e) | 125 | (b) | 145 | (b) | 165 | (b) | 185 | (c) |
| 6          | (e) | 26 | (e) | 46 | (b) | 66 | (e) | 86  | (c) | 106 | (e) | 126 | (e) | 146 | (a) | 166 | (d) | 186 | (d) |
| 7          | (d) | 27 | (a) | 47 | (c) | 67 | (d) | 87  | (d) | 107 | (c) | 127 | (d) | 147 | (c) | 167 | (d) | 187 | (d) |
| 8          | (c) | 28 | (d) | 48 | (a) | 68 | (b) | 88  | (e) | 108 | (a) | 128 | (b) | 148 | (c) | 168 | (c) | 188 | (c) |
| 9          | (d) | 29 | (e) | 49 | (c) | 69 | (e) | 89  | (b) | 109 | (b) | 129 | (d) | 149 | (a) | 169 | (d) | 189 | (e) |
| 10         | (b) | 30 | (b) | 50 | (d) | 70 | (a) | 90  | (a) | 110 | (d) | 130 | (e) | 150 | (b) | 170 | (a) | 190 | (e) |
| 11         | (a) | 31 | (e) | 51 | (a) | 71 | (d) | 91  | (a) | 111 | (b) | 131 | (c) | 151 | (d) | 171 | (b) | 191 | (a) |
| 12         | (e) | 32 | (c) | 52 | (d) | 72 | (c) | 92  | (b) | 112 | (e) | 132 | (d) | 152 | (a) | 172 | (d) | 192 | (d) |
| 13         | (e) | 33 | (c) | 53 | (a) | 73 | (d) | 93  | (c) | 113 | (a) | 133 | (e) | 153 | (c) | 173 | (d) | 193 | (e) |
| 14         | (d) | 34 | (e) | 54 | (b) | 74 | (c) | 94  | (e) | 114 | (c) | 134 | (a) | 154 | (e) | 174 | (a) | 194 | (c) |
| 15         | (c) | 35 | (c) | 55 | (a) | 75 | (a) | 95  | (d) | 115 | (d) | 135 | (d) | 155 | (b) | 175 | (b) | 195 | (e) |
| 16         | (d) | 36 | (b) | 56 | (b) | 76 | (a) | 96  | (c) | 116 | (e) | 136 | (b) | 156 | (a) | 176 | (a) | 196 | (b) |
| 17         | (e) | 37 | (a) | 57 | (d) | 77 | (b) | 97  | (d) | 117 | (b) | 137 | (b) | 157 | (d) | 177 | (b) | 197 | (a) |
| 18         | (a) | 38 | (a) | 58 | (e) | 78 | (c) | 98  | (e) | 118 | (c) | 138 | (d) | 158 | (c) | 178 | (c) | 198 | (c) |
| 19         | (c) | 39 | (d) | 59 | (d) | 79 | (b) | 99  | (b) | 119 | (a) | 139 | (a) | 159 | (d) | 179 | (a) | 199 | (d) |
| 20         | (b) | 40 | (c) | 60 | (a) | 80 | (b) | 100 | (a) | 120 | (d) | 140 | (c) | 160 | (e) | 180 | (d) | 200 | (c) |

ANSWERS & EXPLANATIONS

41. (b) Refer to the 1st sentence of para 1 ‘Govind’s father ..... left large tract of land to Govind’.

42. (c) Refer to the 3rd sentence of para 2 “To his surprise .....into gold”.

43. (d) Refer to the last two sentences of para 1 of the passage.

45. (e) Refer to the sixth sentence of para 2 of the passage ‘You have..... during winter’.

46. (b) Refer to the third last sentence of para 3 of the passage.

47. (c) Refer to the ninth sentence ‘She would take. .... a good price’ of the para 3 of the passage.

48. (a) Refer to the third last sentence ‘people took..... cheated him’ of the para 1 of the passage.

49. (c) The word **spend** (verb) means to pay out, to employ (labour, time etc.) on some objects. For instance,
- How do you spend your leissure-time?

Similarly, the word **devote** (verb) means to give time and energy to something. For instance, He is devoted to his studies.

Thus, spend and devote are synonymous.
50. (d) The word **lie** (verb) means be at rest. For instance, She is lying on the bed.

Similarly, the word **remain** (verb) means continue to stay. For instance, Twenty pens were distributed and the remaining were returned.

Thus, lying and remaining are synonymous.

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51. (a) The word **dismay** (noun) means feeling of fear and discouragement. For instance,  
They were struck with dismay at the news.  
While, the word **joy** (noun) means feeling of happiness.  
Thus, both are antonyms.
52. (d) The word **tend** (verb) means look after. For instance,  
Nurse tended the injured persons.  
While, the word **ignore** (verb) means take no notice of.  
For instance,  
Raman ignored the advice of his elders.  
Thus, both are antonyms.

59. (d) Use 'divided' instead of 'dividend'.
60. (a) Use 'agreed' properly for 'consented'.
61. (b) Use 'file' instead of 'fill'.
62. (c) Apply 'funds' for 'investment'.
68. (b) 'Sent' is the third form of verb 'send' in passive voice.
70. (a) Replace 'though' by 'As' to express cause and effect in the sentence.
71. (d) Use 'and I answered' properly to express cause and effect in the sentence.
72. (c) Apply the adverb 'highly' before the adjective 'paid'.

81. (c)  $? = \frac{786 \times 64}{48} = 1048$

82. (a)  $\sqrt[3]{13824} \times \sqrt{?} = 864$   
 $\sqrt[3]{24 \times 24 \times 24} \times \sqrt{?} = 864$   
 $\Rightarrow 24 \times \sqrt{?} = 864$   
 $\Rightarrow \sqrt{?} = \frac{864}{24}$   
 $\therefore ? = 36 \times 36 = 1296$

83. (e)  $\frac{60}{100} \times \frac{20}{100} \times \frac{3}{5} \times ? = 450$   
 $\Rightarrow \frac{9}{125} \times ? = 450$   
 $\Rightarrow ? = \frac{450 \times 125}{9} = 6250$

84. (d)  $? = 196 \times 948 \div 158$   
 $= \frac{196 \times 948}{158} = 1176$

85. (b)  $? = 3.5 + 11.25 \times 4.5 - 32.5$   
 $= 3.5 + 50.625 - 32.5$   
 $= 54.125 - 32.5 = 21.625$

86. (c)  $? = \frac{\sqrt{4096} \times 56}{764 - 652}$   
 $= \frac{64 \times 56}{112} = 32$

87. (d)  $? = (98360 + 25845 - 36540) \div 2500$   
 $= 87665 \div 2500 = 35.066$

88. (e)  $? = 7414 + 3698 + 1257 + 1869 = 14238$

89. (b)  $(91)^2 + (41)^2 - ? = 9858$   
 $\Rightarrow 8281 + 1681 - \sqrt{?} = 9858$   
 $\Rightarrow ? = 9962 - 9858 = 104$   
 $\therefore ? = 104 \times 104 = 10816$

90. (a)  $? = (2640 \div 48) \times (2240 \div 35)$   
 $= 55 \times 64 = 3520$

91. (a)  $\frac{121}{-2^2} \times \frac{117}{-3^2} \times \frac{108}{-4^2} \times \frac{92}{-5^2} \times \frac{67}{-6^2} \times \boxed{31}$

92. (b)  $\frac{50}{\div 2+1} \times \frac{26}{\div 2+1} \times \frac{14}{\div 2+1} \times \frac{\boxed{8}}{\div 2+1} \times \frac{5}{\div 2+1} \times \frac{3.5}{\div 2+1}$

93. (c)  $\frac{3}{+20} \times \frac{23}{+20} \times \frac{43}{+20} \times \frac{\boxed{63}}{+20} \times \frac{83}{+20} \times \frac{103}{+20}$

94. (e)  $\frac{748}{-11} \times \frac{737}{-22} \times \frac{715}{-33} \times \frac{682}{-44} \times \frac{638}{-55} \times \boxed{583}$

95. (d)  $\frac{1}{1^2} \times \frac{9}{3^2} \times \frac{25}{5^2} \times \frac{49}{7^2} \times \frac{81}{9^2} \times \frac{\boxed{121}}{11^2} \times \frac{169}{13^2}$

96. (c) Let the number of ducks and frogs in the pond be  $37x$  and  $39x$  respectively.

ATQ,

$$\frac{37x + 39x}{2} = 152$$

$$\Rightarrow 38x = 152$$

$$\Rightarrow x = \frac{152}{38} = 4$$

$$\therefore \text{Number of frogs} = 39x \\ = 39 \times 4 = 156$$

97. (d) The word ARISE has 5 distinct letters.

$$\therefore \text{Number of arrangements} = 5! \\ = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

98. (e) The number of employees in companies A, B and C be  $4x$ ,  $5x$  and  $6x$  respectively  
After increase in the number of employees, required ratio will be

$$= 4x \times \frac{125}{100} : 5x \times \frac{130}{100} : 6x \times \frac{150}{100}$$

$$= 4 \times 25 : 5 \times 26 : 6 \times 30$$

$$= 10 : 13 : 18$$

99. (b) According to the questions, third number will be

$$= 5 \times 213 - 2 \times 233.5 - 2 \times 271$$

$$= 1065 - 467 - 542 = 56$$

100. (a) Let Sonali's monthly income = Rs.  $x$ .

Sonali's percentage monthly spendings

$$= (55 + 15)\% = 70\%$$

$$\text{Percentage savings} = 100 - 70 = 30\%$$

ATQ,

$$\therefore 30\% \text{ of } x = 12750$$

$$\Rightarrow x = \frac{12750 \times 100}{30} = \text{Rs. } 42500$$

101. (a) Number of all residents in year

$$2006 : 220 + 300 + 240 + 220 + 240 = 1220$$

$$2007 : 240 + 340 + 250 + 230 + 260 = 1320$$

$$\text{Required difference} = 1320 - 1220 = 100$$

102. (b) Total number of men living together in year 2005

$$= \frac{60 \times 250}{100} + \frac{45 \times 320}{100} + \frac{45 \times 280}{100}$$

$$+ \frac{40 \times 210}{100} + \frac{55 \times 220}{100}$$

$$= 150 + 144 + 126 + 84 + 121 = 625$$

$$\therefore \text{Required average} = \frac{625}{5} = 125$$

103. (d) Required respective ratio

$$= \frac{65 \times 200}{100} : \frac{60 \times 250}{100}$$

$$= 130 : 150$$

$$= 13 : 15$$

104. (b) Total number of women in the societies together in year 2005

$$= \frac{40 \times 250}{100} + \frac{55 \times 320}{100} + \frac{55 \times 280}{100}$$

$$+ \frac{60 \times 210}{100} + \frac{45 \times 220}{100}$$

$$= 100 + 176 + 154 + 126 + 99 = 655$$

$$\therefore \text{Required average} = \frac{655}{5} = 131$$

105. (e) Number of women in society E over the years

$$= \frac{40 \times 220}{100} + \frac{65 \times 240}{100} + \frac{50 \times 250}{100} + \frac{45 \times 220}{100}$$

$$+ \frac{50 \times 240}{100} + \frac{40 \times 260}{100}$$

$$= 88 + 156 + 125 + 99 + 120 + 104 = 692$$

Total number of residents in the society E over the years =  $220 + 240 + 250 + 220 + 240 + 260 = 1430$

$$\therefore \text{Required ratio} = 692 : 1430 = 346 : 715$$

$$106. (e) C.I. = P \left[ 1 + \frac{r}{100} \right]^t - 1$$

$$= 9650 \left[ 1 + \frac{6}{100} \right]^3 - 1$$

$$= 9650 (1.191016 - 1)$$

$$= 9650 \times 0.191016 \approx \text{Rs. } 1843$$

107. (c) The rate of milk when milkman sells 120 litres of milk for Rs. 3360

$$\therefore SP = \left( \frac{3360}{120} \right) = \text{Rs. } 28$$

The rate of milk when milkman sells 240 litres of milk for Rs. 6120.

$$\therefore SP = \left( \frac{6120}{240} \right) = \text{Rs. } 25.5$$

$$\therefore \text{Required discount} \\ = (28 - 25.5) = \text{Rs. } 2.5$$



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108. (a) Let the number be  $x$ .

$$\text{ATQ, } \frac{3626}{x^2} \times 32 = 2368$$

$$\Rightarrow x^2 = \frac{3626 \times 32}{2368} = 49$$

$$\therefore x = \sqrt{49} = 7$$

109. (b) Let the two digits number be  $10n + m$  and  $n > m$ .

As given,

$$n + m = 14$$

$$n - m = 2$$

On solving the equation,

$$n = 8, m = 6$$

$$\therefore \text{Product of digits} = 8 \times 6 = 48$$

110. (d) After servicing, speed of car = 60 km/h

$\therefore$  Distance covered in 6 hours

$$= (60 \times 6) \text{ km} = 360 \text{ km}$$

Before servicing, time taken to cover 360 km

$$\therefore \text{Time taken} = \frac{360 \text{ km}}{50 \text{ km/h}} = 7.2 \text{ hours}$$

111. (b) Number of students from the faculty of Arts

Studying in College C = 32500 and

College D = 25000.

$$\therefore \text{Required ratio} = 32500 : 25000 = 13 : 10$$

112. (e) Required Average

$$= \frac{25000 + 27500 + 30000}{3} = \frac{82500}{3} = 27500$$

113. (a) Required average number of Arts students

$$= \frac{25000 + 22500 + 32500 + 25000}{4}$$

$$= \frac{105000}{4} = 26250$$

114. (c) Total number of students in college B

$$= 22500 + 32500 + 20000 = 75000$$

Number of Commerce students in college B = 32500

$$\therefore \text{Required percentage} = \frac{32500}{75000} \times 100 \approx 43$$

115. (d) Total number of Commerce students

$$= 27500 + 32500 + 25000 + 22500$$

$$= 107500$$

Total number of Science students

$$= 30000 + 20000 + 12500 + 30000$$

$$= 92500$$

$$\therefore \text{Difference} = 107500 - 92500 = 15000$$

116. (e)  $? = \sqrt{964} \times \sqrt{348}$

$$\approx 31.05 \times 18.6 \approx 579$$

117. (b)  $? = 37.35 + 13.064 \times 3.46$

$$\approx 37.35 + 13 \times 3.5$$

$$\approx 37.35 + 45.5 \approx 82.85 \approx 83$$

118. (c)  $? = (4863 + 1174 + 2829) \div 756$

$$= 8866 \div 756 = 11.72 \approx 12$$

119. (a)  $? = \frac{54 \times 746}{32} = 1258.87 \approx 1259$

120. (d)  $? = [(1.5)^2 \times (3.2)^2] \div 2.3$

$$= \frac{2.25 \times 10.24}{2.3} \approx 10$$

121. (c) Meaningful words : ARE, EAR

122. (c)
- |      |      |      |      |      |      |      |   |       |
|------|------|------|------|------|------|------|---|-------|
| A    | D    | J    | E    | C    | T    | I    | V | E     |
| +1 ↓ | -1 ↓ | -1 ↓ | +1 ↓ | -1 ↓ | -1 ↓ | +1 ↓ | - | ↓ + ↓ |
| B    | C    | I    | F    | B    | S    | J    | U | F     |

123. (a) na pa ka so  $\rightarrow$  birds fly very high

ri so la pa  $\rightarrow$  birds are very beautiful

ti me ka bo  $\rightarrow$  the parrots could fly

Thus high is coded as na.

124. (d) 1 2 3 4 5 6 7 8 9

$$\text{Difference} = 8 - 4 = 4$$

125. (b) 1 2 3 4 5 6 7 8 9 10 11 12 13

C O M P A T I B I L I T Y

Meaningful word  $\Rightarrow$  L I M B

126. (e) As  $F \xrightarrow{+2} H$   $I \xrightarrow{-2} G$

$$N \xrightarrow{+2} P \quad E \xrightarrow{-2} C$$

Similarly,

$$S \xrightarrow{+2} U \quad L \xrightarrow{-2} J$$

$$I \xrightarrow{+2} K \quad T \xrightarrow{-2} R$$

127. (d) As  $L \rightarrow 8$  and  $H \rightarrow 7$   
 $A \rightarrow \&$   $I \rightarrow *$   
 $T \rightarrow 4$   $R \rightarrow 3$   
 $E \rightarrow \$$   $E \rightarrow \$$

Similarly,

$$\begin{array}{ll} H \longrightarrow 7 & A \longrightarrow \& \\ I \longrightarrow * & L \longrightarrow 8 \end{array}$$

128. (b) Others relate to 'parts of tree'.  
 129. (d) Since 'potato' is called Banana. Thus, 'Banana' grows underground.  
 130. (e) EI, EG, GI and NL.  
 131. (c) Some suns are planets.

  
 All planets are satellites.

$(I + A \Rightarrow \text{I-type})$

"Some suns are satellites".

Conclusions I and II form Complementary Pair.

Therefore, either I or II follows.

132. (d) All curtains are rods.

  
 Some rods are sheets.

$(A + I \Rightarrow \text{No Conclusion})$

133. (e) Some plugs are bulbs

  
 All bulbs are sockets.

$(I + A \Rightarrow \text{I-type})$

"Some plugs are sockets".

Conclusion I is Converse of this Conclusion.

Conclusion II is Converse of the first Premise.

134. (a) All fishes are birds. (conversion)

  
 All birds are rats.  
 $(A + A \Rightarrow \text{A-type})$   
 "All fishes are rats".

All birds are rats. (conversion)



All rats are cows.

$(A + A \Rightarrow \text{A-type})$

"All birds are cows".

This is Conclusion I.

135. (d) Some windows are doors.



All doors are roofs.

$(I + A \Rightarrow \text{I-type})$

"Some windows are roofs".

136. (b) Arranged in ascending order, we get  
 489, 145, 456, 359 and 378.  
 $\therefore$  Lowest number = 145 or **541**.

137. (b) We have,

$$\begin{array}{ll} 489 - 5 = 484 & 654 - 5 = 649 \\ 541 - 5 = 536 & 953 - 5 = 948 \\ 783 - 5 = 778 & \\ \text{Highest number} = 948 & \\ \text{Second highest number} = 778 & \\ \therefore \text{Difference} = 948 - 778 = 170 & \end{array}$$

138. (d) Interchanging the first and the second digits of given numbers, we get 849, 451, 564, 593 and 873.  
 $\therefore$  Third highest number = 593 or **953**.

139. (a) On adding 1, we get **490**, 542, 655, **954** and 784.  
 $\therefore$  Required number =  $5 - 4 = 1$

140. (c) Interchanging the first and the last digits of given numbers, we get 984, 145, 456, 359 and 387.  
 $\therefore$  Second highest number = 456 or **654**.

141. (a)  $P + S \rightarrow P$  is daughter of S.  
 $S - T \rightarrow S$  is father of T.  
 Therefore, P is sister of T.

142. (d)  $P \times Q \rightarrow P$  is wife of Q.  
 $Q - T \rightarrow Q$  is father of T.  
 T is child of P and Q.  
 The sex of T is not known.  
 T is either son or daughter of P.

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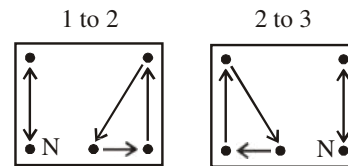
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143. (e)  $P \times S \rightarrow P$  is wife of S.  
 $S \div T \rightarrow S$  is son of T.  
 T is either father-in-law or mother-in-law of P.  
 $P \div S \rightarrow P$  is son of S.  
 $S \times T \rightarrow S$  is daughter of T.  
 Therefore, T is father of P.  
 $P - S \rightarrow P$  is father of T.  
 $P + T \rightarrow P$  is daughter of T.  
 $T \div S \rightarrow T$  is son of S.  
 Therefore, T is father of P.
144. (c)  $P + Q \rightarrow P$  is daughter of Q.  
 $Q - S \rightarrow Q$  is father of S.  
 Therefore, P is sister of S.  
 $P \div Q \rightarrow P$  is son of Q.  
 $Q \times S \rightarrow Q$  is wife of S.  
 Therefore, P is son of S.  
 $P \div Q \rightarrow P$  is son of Q.  
 $Q + S \rightarrow Q$  is daughter of S.  
 Therefore, P is grandson of S.
145. (b)  $P + Q \rightarrow P$  is daughter of Q.  
 $Q \times T \rightarrow Q$  is wife of P.  
 Therefore, T is father of P.
146. (a)  $B \rightarrow 9$ ;  $A \rightarrow 2$ ;  $R \rightarrow *$ ;  $N \rightarrow \%$ ;  $I \rightarrow \#$ ;  $S \rightarrow 4$
147. (b)  $D \rightarrow 2$ ;  $M \rightarrow @$ ;  $B \rightarrow 9$ ;  $N \rightarrow \%$ ;  $I \rightarrow \#$ ;  $A \rightarrow 2$   
 Condition (i) is applied.
148. (c)  $I \rightarrow \$$ ;  $J \rightarrow 8$ ;  $B \rightarrow 9$ ;  $R \rightarrow *$ ;  $L \rightarrow \pounds$ ;  $G \rightarrow \#$   
 Condition (ii) is applied.
149. (a)  $B \rightarrow 9$ ;  $K \rightarrow \odot$ ;  $G \rightarrow \$$ ;  $Q \rightarrow 7$ ;  $J \rightarrow \odot$ ;  $N \rightarrow \%$   
 Condition (iii) is applied.
150. (b)  $E \rightarrow \pounds$ ;  $G \rightarrow \$$ ;  $A \rightarrow 2$ ;  $K \rightarrow 1$ ;  $R \rightarrow *$ ;  $L \rightarrow 3$   
 Condition (ii) is applied.

For (Qs. 151-155): Given information can be tabulated as follows

| Person | Sex    | Company | Specialisation |
|--------|--------|---------|----------------|
| A      | Male   | X       | Finance        |
| B      | Male   | Z       | Marketing      |
| C      | Male   | Y       | Engineer       |
| D      | Female | X       | HR             |
| E      | Male   | Y       | Doctor         |
| F      | Male   | Y       | Marketing      |
| G      | Female | Z       | Finance        |
| H      | Male   | Z       | HR             |

156. (a) The movement and other changes in designs can be shown as :



These two steps are repeated alternately.

157. (d) In the subsequent figures respectively one, two zero ..... curve(s) is/are added and curves move along the line segment and get reversed in each subsequent figure.
158. (c) In the subsequent figures one design is left intact while other three designs are inverted.
159. (d) In the subsequent figures the star moves three steps in clockwise direction inside the hexagon after every two figures. The equal sign moves respectively one and two step(s) in clockwise direction along the sides of the hexagon. The design C moves in and out the hexagon in the subsequent figures and moves respectively two and one step(s) in clockwise direction. In other words, this problem is based on the rule  $(1) = (5)$  and hence  $(2) = (6)$ .
160. (e) In the subsequent figures respectively two and three designs change size alternately in a set order.