SBI Clerk Mains 2019

REASONING ABILITY

Directions (1-5): Study the following information and answer the questions given below:

There are three rows i.e. row 1, row 2 and row 3 Such that row 2 is in the north of row 3 and row 1 is in the north of row 2. There are 4 persons sitting in row 1 and 8 persons are sitting in the row 2 and 4 persons are sitting in the row 3.

Persons sitting in the row 3 faces north. Persons sitting in the row 1 faces south. First 4 persons sitting from west to east in row 2 faces north and last four person sitting from west to east in row 2 faces south.

Note: All the persons sitting in the row 1 and row 3 are facing the persons sitting in the row 2.

E faces the one who sits second to the right of P. No one sits on the left of E. Only one person sits between P and R. Only two person 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 person 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 person sits between M and L. More than two persons sits between B and C, who does not face L. C does not face south.

1. How many persons sit between A and G?
   (a) One   (b) None   (c) Three
   (d) Two   (e) None of these

2. Who among the following sits second to the right of C?
   (a) F   (b) D   (c) G
   (d) L   (e) None of these

3. 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

4. Which among the following pairs sits at the ends of the rows?
   (a) BS   (b) EQ   (c) KG
   (d) RM   (e) None of these

5. How many persons sit on the right of L?
   (a) Three   (b) One   (c) No one
   (d) Four   (e) None of these

Directions (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: 42 74 TBEF WRAK 95 NLDG 31 65 KEOR QCOF
Step I: 90 42 74 TBEF NLDG 31 65 KEOR QCOF AKRW
Step II: 79 90 42 NLDG 31 65 KEOR QCOF AKRW BEFT
Step III: 60 79 90 42 NLDG 31 KEOR AKRW BEFT CFOQ
Step IV: 47 60 79 90 31 KEOR AKRW BEFT CFOQ DGLN
Step V: 26 47 60 79 90 AKRW BEFT CFOQ 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: IMRE 40 69 RBHI 86 PMCN 25 KDSM 57 VATW

6. How many steps would be needed to complete the arrangement?
   (a) V   (b) VII   (c) VI
   (d) IV   (e) None of these

7. Which step number would be the following output?
   45 52 64 91 IMRE 25 ATVW BHIR CMNP DKMS
   (a) II   (b) III   (c) V
   (d) IV   (e) None of these

8. Which of the following would be Step III?
   (a) 52 64 91 IMRE 40 25 KDSM ATVW CMNP BHIR
   (b) 52 64 91 IMRE 40 25 KDSM ATVW BHIR CMNP
   (c) 64 52 91 IMRE 40 25 KDSM ATVW BHIR CMNP
   (d) 52 91 64 IMRE 40 25 KDSM ATVW BHIR CMNP
   (e) None of these

9. Which of the following element would be the 4th to the left of the one which is 8th from the left in the step IV?
   (a) 91   (b) IMRE   (c) 64
   (d) CMNP   (e) None of these

10. In Step V, which of the following element would be on eighth position from the right end?
    (a) ATVW   (b) BHIR   (c) 64
    (d) 52   (e) None of these

11. In the word 'HOUSEWARMING' 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) One   (b) Two   (c) Four
(d) Three   (e) More than four

12. If we form the word by 1st, 3rd and 5th letter of 'FORMATION' and 3rd and 4th letter of 'WOMEN' then, what will be the 3rd letter from right?
(a) R   (b) A   (c) M
(d) E   (e) None of these

Directions (13-15): Study the following information carefully and answer the questions given below.
A%B (28)- A is 42m in north of B
A$B (13)- A is 27m in south of B
A#B (24)- A is 28 in east of B
A&B (25)- A is 29m in west of B
M#L (10), N%M (11), O&N (13), P$O (31), Q#P (38), R%Q (6)

13. N 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 M and R, then what is the distance between L and Z?
(a) 35.5m   (b) 34m   (c) 36.5m
(d) 37.5m   (e) None of these

15. What is the distance between L and R?
(a) 50m   (b) 51m   (c) 46m
(d) 48m   (e) 49m

Directions (16-20): In the following questions, the symbols %, &, #, * and @ are used with the following meaning as illustrated below-
'P#Q' means 'P is not greater than Q'
'P*Q' means 'P is neither equal to nor smaller than Q'
'P%Q' means 'P is not smaller than Q'
'P@Q' means 'P is neither smaller than nor greater than Q'
'P&Q' means 'P is neither greater than nor equal to Q'

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:** N * Q % R % O & P @ M
Conclusions: **I.** N % O   **II.** O & M

17. **Statements:** A # B * C * D & E
Conclusions: **I.** A * D   **II.** D & B

18. **Statements:** K % J * H % G; H * S % T
Conclusions: **I.** H & K   **II.** T * J

19. **Statements:** B # D @ F # G * H % C
Conclusions: **I.** B & G   **II.** G @ B

20. **Statements:** V % W & K # L; W * P @ M
Conclusions: **I.** M & L   **II.** V * W

Direction (21-25): Study the following information carefully and answer the questions given below:

Six persons are sitting in a row. Some of them are facing North and Some are facing South. They are of different ages. Person whose age is even numbered doesn't sit immediate right of the person whose age is even numbered.

Two persons sit between P and T and one of them sits at extreme end. Three persons are sitting between the persons whose age is 14 and 42. Person whose age is 15 sits 2nd to the left of T. There are as many persons sit between T and person whose age is 15 as between the persons whose ages are 15 and 28. Q sits immediate right of the person whose age is 15. One person sits between S and U and neither of them sit at extreme end. Q is older than R. T whose age is even numbered is older than U who faces North. Person whose age is 20 sits 3rd to the left of the person whose age is 19.

21. How many persons are sitting between R and the person whose age is 20?
(a) One   (b) Three   (c) Two
(d) Four   (e) None

22. Who among the following sits immediate right of U?
(a) S
(b) Person whose age is 19
(c) T
(d) Person whose age is 42
(e) None of these

23. What is the position of Q with respect to the 2nd youngest person?
(a) 2nd to the right   (b) Immediate left
(c) Immediate right   (d) 2nd to the left
(e) None of these

24. What is the age of the person who sits immediate left of S?
(a) 14   (b) 15   (c) 28
(d) 19   (e) None of these

25. How many persons are facing North?
(a) Two   (b) Three   (c) One
(d) None   (e) More than three

Direction (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 is 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 '435' hence the code will be changed to '⌊35'.

26. If the code for the word '**SE_ _ED**' is coded as '3*T*□3♠□3' then what letters will come in the fill in the blanks to make it a meaningful word?
(a) RV (b) AL (c) EM
(d) AD (e) Either (b) or (d)

27. Which of the following word will be coded as '3462□3'?
I. SMOKED II. STAKED III. STOKED
(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) SLOWLY - ♠36♠□2
(b) BELIEVE- 1□3□4□4
(c) BURNT- 172□4
(d) ADVERB- 3♠□4□1
(e) All are true

29. If the code for the words 'BEAST MODE ____' is coded as '1□3♠4 ♠6♠2 4634' in the given coded pattern, then what will be the missing word?
(a) CLUB (b) WORK (c) STUN
(d) WORN (e) Either (b) and (d)

30. What is the code for 'NECKLACE'?
(a) 4□2♠1353 (b) ↖42♠♠□23 (c) □421♠353
(d) □42♠1335 (e) None of these

Direction (31): Study the following information carefully and answer the questions given below:

Eight persons are sitting in a row and all are facing North. Only two persons sit to the right of A. Two persons sit between A and B. Three persons sit between C and G. E and G are immediate neighbors of B. D sits immediate left of E. F sits 2nd to the right of H.

31. How many persons are sitting right of G?
(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 education, we need to improve our education system. To improve 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 opt for a job rather than trying the career in teaching field which requires post-graduation as minimum eligibility criteria because they do not get a good salary there.
Course of Action-
(I) The Salary of the teachers should be hiked to encourage them for opting teaching.
(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

Direction (34-38): Study the following information carefully and answer the questions given below:
Six persons are working in a company. Their designations are Chief Executive Officer (CEO), Chief Managing Director

(CMD), Managing Director (MD), General Manager (GM), Chief Finance Officer (CFO), Finance Officer (FO). Sequence of the posts are as above i.e. the post of Chief Executive Officer (CEO) is higher than Chief Managing Director (CMD), the post of Chief Managing Director (CMD) is higher than Managing Director (MD) 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 7 lakhs. There are as many posts above the post of the person whose annual salary is 14 lakhs as below the post of the person who have 7-year experience. Annual salary of CEO is 6 lakhs. There are three posts in between the post of the persons whose experience are 4 years and 5 years. Person whose annual salary is 14 lakhs have just higher post than the post of the person who have 6 years' experience and just lower post than the post of the person who have 8 years' experience. Two posts are between the posts of the person who have 3 years and 8 years' experience. Person whose annual salary is 5 lakhs have higher post than the person whose annual salary is 9 lakhs and lower post than the person whose annual salary is 4 lakhs. Person whose salary is 9 lakhs doesn't have 4 years' experience.

34. Who among the following has lowest salary?
(a) Person who is CMD
(b) Person who have 6 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) 3 years   (b) 4 years   (c) 5 years
(d) 8 years   (e) None of these

36. How many persons are senior than the person whose annual salary is 14 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) 4 lakhs   (b) 5 lakhs   (c) 7 lakhs
(d) 9 lakhs   (e) None of these

38. Which of the following pair of combination is/are true?
(a) CMD - 4 lakhs (b) GM – 7 years (c) MD – 6 lakhs
(d) CFO – 5 lakhs (e) None is true

Direction (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 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 above 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 (41-45): Study the following information and answer the questions given below:

There are nine boxes which are kept one above the other such that the box which is placed at the bottom most position is numbered 1 and so on till the box which is placed at the top position is numbered 9.
All the boxes contain different number of pens in it.

Note: The number of pens in a box is equal to the multiple of the place number of the box which is kept immediately above it i.e. The number of pens in the box which is kept at the bottom is equal to the multiple of is 2, 4, 6… and so on and the number of pens in the box which is placed at the top (9th position) is 10, 20, 30 and so on.

Only two boxes are kept between the box having 42 pens and box A. Box I is kept at the odd number position but immediately below box F. There is only one box is kept between box E and box having 25 pens. Box D is kept immediately above the box containing 63 pens. Box E does not contain 63 pens. The number of pens in Box G is equal to the difference between the number of pens in box D and

box I. Box B is kept above the box having 8 pens. Box G contains 21 less pens than box A contains. Only three boxes are kept between box D and the box containing 12 pens. Only two boxes are kept between box H and the box having 12 pens. More than three boxes are kept between box C and box H. The box having pens which is a perfect square of 3 is kept immediately above box C. The number of pens in box D is equal to the sum of the number of pens in box H and the box which is placed at 2nd position.

41. Which among the following box contains 42 pens?
(a) Box D   (b) Box H   (c) Box B
(d) Box E   (e) Box I

42. How many boxes are kept above box F?
(a) Three   (b) Two   (c) Four
(d) Five   (e) None of these

43. Number of boxes between I and the box having 63 pens is same between the box B and the box?
(a) Box G   (b) 42 pens   (c) 81 pens
(d) Box C   (e) Both (a) and (c)

44. Box F contains how many pens?
(a) 25   (b) 42   (c) 63
(d) 81   (e) None of these

45. Total number of pens in the boxes A, G and I 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 5th 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: (48-50): Study the following information carefully and answer the questions which follow–
'T @ U' means 'T is parent of U (either mother or father)'
'T # U' means 'T is sister of U'
'T $ U' means 'U is grandchild of T'
'T % U' means 'T is brother of U'
'T & U' means 'T is the son-in-law of U'
'T * U' means 'T is the wife of U'
'T © U' means 'U is the mother of T'

There are some members in a family having three generation. The relation between the different members of the family are defined as follows.
U@G#J
C&I
F%H*C
B@H
G*F%H©I
J©A$D
B$E

48. If D is the only child of F, then how is D related to U?
(a) Son   (b) Grandson
(c) Daughter   (d) Grand daughter
(e) Can't be determined

49. If A has only one son, then how is J related to F?
(a) Son   (b) Brother-in-law
(c) Brother   (d) Father   (e) None of these

50. If D has no sibling and B has no granddaughter, then how is E related to C?
(a) Daughter   (b) Wife   (c) Nephew
(d) Son   (e) Cannot be determined

Directions (51-56): Study the table given below and answer the following questions. Some data is missing in the table. Table shows data regarding Rs.20 notes received by 5 different banks during demonetization.

Banks	Total no. of notes received by bank	% of notes on which 100% return is given	Ratio of notes on which (50% return : 80% return) is given	Total value of Rs.20 notes received by bank (in Rs.)
PNB	15,000	-------	5 : 7	-------
SBI	-------	80%	-------	9,00,000
Axis Bank	10,000	-------	1 : 4	-------
BOI	-------	75%	3 : 5	-------
BOB	24,000	-------	-------	4,80,000

Note: 1. 'Return' is the amount (face value of note) of notes returned by bank to its customers.
    2. Each bank has given minimum of 50% return on all notes received by it.

51. If difference of notes on which 50% return is given and on which 80% return is given of PNB is 1000, then find number of notes on which 100% return is given by PNB are what percent of total notes received by BOB?
(a) 12.5%   (b) 37.5%   (c) 50%
(d) 25%   (e) 62.5%

52. If total number of notes on which BOI gave 100% return and 50% return are 13500, then find total amount received by BOI is how much more or less than total amount received by Axis bank?
(a) Rs.1,20,000   (b) Rs.1,00,000   (c) Rs.1,50,000
(d) Rs.1,60,000   (e) Rs.1,80,000

53. If ratio of notes on which (50% return : 80% return) is given by BOB is same as ratio of notes on which (50% return : 80% return) is given by Axis bank and number of notes on which BOB gave 100% return are 20% less than total notes received by PNB, then find ratio of notes on which BOB gave 80% return to that of on which it gave 100% return.
(a) 2 : 3   (b) 1 : 3   (c) 4 : 5
(d) 5 : 7   (e) None of the above.

54. If total number of notes received by BOI is 40% less than total number of notes received by SBI, then find average number of Rs.20 notes received by these 5 banks.
(a) 24,700   (b) 25,000   (c) 25,400
(d) 24,200   (e) Cannot be determined.

55. If percentage of notes on which 100% return is given by PNB is 50%, then find the amount earned by PNB in this whole transaction.
(a) Rs.47,750   (b) Rs.44,500   (c) Rs.41,500
(d) Rs.45,750   (e) Rs.48,750

56. If difference of number of notes on which PNB gave 50% return and 80% return is 1500 and number of notes on which Axis bank gave 80% return are 1750 less than number of notes on which PNB gave 50% return, then find total number of notes on which PNB and Axis Bank gave 100% return together.
(a) 12000   (b) 13000   (c) 12500
(d) 14000   (e) 13500

57. A spend 30% of his monthly salary on house rent, 40% of the remaining salary on clothing and he distributes his remaining monthly salary among his two daughters and a son in the ratio 5 : 5 : 4. If difference of A's monthly expenditure on Clothing and monthly amount given by A to his son is Rs.24000, then find A's annual expenditure on house rent.
(a) Rs.500000   (b) Rs.540000   (c) Rs.550000
(d) Rs.560000   (e) Rs.600000

58. A can complete a piece of work in 33 days and C is three times more efficient than A. Ratio of efficiency of B to that of C is 3 : 2. If all three starts working together, then find in how many days the work will be completed?
(a) $2\frac{1}{2}$ days   (b) 5 days   (c) 3 days
(d) 4 days   (e) $4\frac{1}{2}$ days

59. A, B & C entered into a partnership business. Amount invested by B is 3 times of amount invested by A and ratio of amount invested by C to that of B is 1 : 2. After 11 months, all 3 withdrew Rs.Y. If ratio of C's profit share to total profit at the end of the year is 35 : 129, then find profit sharing ratio of A to that of B at the end of the year.
(a) 19 : 75   (b) 41 : 53   (c) 67 : 27
(d) 23 : 71   (e) 31 : 63

60. A vessel contains milk and water in the ratio 3 : 1. When 80l mixture is taken out and completely replaced by milk, then milk becomes 700% of the water in the vessel. Find original quantity of the vessel.
(a) 240 lit   (b) 280 lit   (c) 320 lit
(d) 200 lit   (e) 160 lit

Directions (61-65): Study the pie chart and table given below and answer the following questions.

Pie chart shows the percentage distribution of total employees of a company – X in 4 different departments (A, B, C & D) and table shows the number of male employees in these departments.

Total employees = 2000
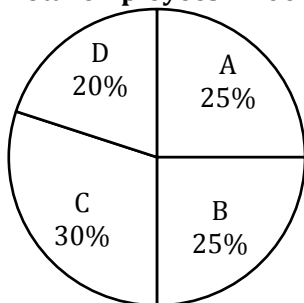
Departments	Male employees
A	240
B	225
C	350
D	160

61. If 38% of the female employees in C are newly recruited and ratio of male employees to female employees who are newly recruited in C is 3 : 5, then find total number of old employees in C is what percent of total employees in C?
(a) $83\frac{1}{3}\%$ (b) $74\frac{2}{3}\%$ (c) $65\frac{2}{3}\%$
(d) $70\frac{2}{3}\%$ (e) $78\frac{1}{3}\%$

62. If ratio of male employees to female employees in company – Y is 4 : 3 and male employees in company – Y are 300% more than male employees in C of company – X, then find total employees in company – Y are how much more or less than that of in company – X?
(a) 450   (b) 800   (c) 560
(d) 630   (e) 750

63. If 16% female employees of B left B and joined D, then find the percentage change in no. of female employees in D after female employees of B joined D.
(a) $25\frac{2}{3}\%$ (b) $34\frac{2}{3}\%$ (c) $18\frac{1}{3}\%$
(d) $30\frac{2}{3}\%$ (e) $35\frac{1}{3}\%$

64. If male employees in company – K are 425 more than female employees in B in company – X, then find average number of female employees in A, C & D in company - X are how much less than male employees in company – K?
(a) 400   (b) 450   (c) 360
(d) 480   (e) 520

65. If ratio of employees who are in (18-40) age group to employees who are in (40+) age group in A, B, C & D in company – X is 13 : 12, 13 : 37, 4 : 1 & 33 : 7 respectively, then find ratio of total no. of employees of (18 – 40) age group to total no. of employees of (40+) age group employees in company – X.
(a) 2 : 1   (b) 9 : 5   (c) 5 : 4
(d) 3 : 2   (e) None of the above.

Directions (66-72): Find the wrong number in the following number series.

66. 8, 10, 20, 70, 320, 1570, 7830
(a) 7830   (b) 10   (c) 8
(d) 320   (e) 1570

67. 18, 20 , 43, 133, 537, 2691, 16163
(a) 43   (b) 16163   (c) 133
(d) 537   (e) 2691

68. 124, 140, 108, 156, 92, 172, 78
(a) 108   (b) 124   (c) 78
(d) 92   (e) 140

69. 260, 380, 510, 618, 759, 856, 1008
(a) 759   (b) 1008   (c) 260
(d) 510   (e) 618

70. 267, 343, 610, 953, 1563, 2515, 4079
(a) 4079   (b) 953   (c) 343
(d) 267   (e) 2515

71. 36, 80, 166, 340, 690, 1392, 2798
(a) 690   (b) 36   (c) 340
(d) 1392   (e) 80

72. 30, 100, 230, 490, 1010, 2050, 4130
(a) 30   (b) 4130   (c) 1010
(d) 490   (e) 2050

73. Ratio of present age of A to that of B is 2 : 5, ratio of present age of B to that of C is 25 : 18 and ratio of present age of C to that of D is 12 : 13. If D is 11 years younger than B, then find present age of A.
(a) 24 years   (b) 20 years   (c) 28 years
(d) 30 years   (e) 18 years

74. Perimeter of a right angled triangle is 60m and length of hypotenuse of right angled triangle is 25m. If base of the right angled triangle is the smallest side, then find length of smallest side.
(a) 10m   (b) 18m   (c) 21m
(d) 25m   (e) 15m

75. Shopkeeper sells two articles – M & N. He marks article – M 20% above its cost price and he gave 5% discount on it. Cost price of article – N is 20% more than cost price of article – M. If shopkeeper sold article – M at Rs.285 and article – N at 15% profit, then find selling price of article – N.
(a) Rs.345   (b) Rs.230   (c) Rs.460
(d) Rs.414   (e) Rs.322

Directions (76-80): The following questions are accompanied by two statements **(I)** and **(II).** You have to determine which statements(s) is/are sufficient/necessary to answer the questions.
(a) Statement **(I)** alone is sufficient to answer the question but statement **(II)** alone is not sufficient to answer the question.
(b) Statement **(II)** alone is sufficient to answer the question but statement **(I)** alone is not sufficient to answer the question.
(c) Both the statements taken together are necessary to answer the question, but neither of the statements alone is sufficient to answer the question.
(d) Either statement **(I)** or statement **(II)** by itself is sufficient to answer the question.
(e) Statements **(I)** and **(II)** taken together are not sufficient to answer the question.

76. Let t be total number of balls in a bag. Balls are of 3 colors - black, white and red. Find t.
(I) when one ball is drawn then Probability of getting a black ball is $\frac{1}{6}$, a red ball is $\frac{1}{6}$ & a white ball is $\frac{2}{3}$.
(II) If one white ball is lost and a ball is drawn, then probability of not getting a white ball is $\frac{8}{23}$.

77. Shivam and Deepak invested in a partnership business in the ratio of 4 : 5. Find the profit share of Shivam.
(I) Shivam invested Rs.12000 and period of investment of Shivam and Deepak is 10 months and 4 months respectively.
(II) Ratio of period of investment of Shivam and Deepak is 5 : 2 and Deepak's profit share is Rs.12000 less than Shivam's profit share.

78. Calculate the marked price of item?
(I) Shopkeeper marked the article 80% above its cost price and shopkeeper earned Rs.100 profit on the article.
(II) Ratio of marked price and discount allowed on the article is 3 : 1.

79. Calculate the rate of interest.
(I) Pankaj earned Rs.4500 as interest, when he invested Rs.6000.
(II) Pankaj invested equal amount at SI and at CI. After 2 years, CI received by Pankaj is Rs.90 more than the SI received by Pankaj.

80. Find the volume of cylinder.
(I) Curved surface area of cylinder is 1760 cm² and total surface area of cylinder is 70% more than its curved surface area.
(II) Volume of cylinder is twice of that of cone. Radius of cylinder and cone is equal and ratio of height of cylinder to that of cone is 2 : 3. Height of cone is 30 cm.

Directions (81-85): In the following questions, two quantities **(I)** and **(II)** are given. You have to solve both the quantities and mark the appropriate answer.

81. Quantity I: In how many ways a committee of 4 members with at least 2 women can be formed from 8 men and 4 women?
   Quantity II: How many 3-digit numbers which are divisible by 3 can be formed from 0,1,2,3,4,5,6,7,8,9, such that 3-digit number always ends with an even number?
(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.

82. Quantity I: A man invested Rs.5900 for 3 years in a scheme offering R% p.a. at SI and received Rs.3186 as interest after 3 years. If the man invested Rs.7900 at (R+5)% p.a. at SI for 3 years, then find interest received by man (in Rs.).
   Quantity II: A man invested Rs.X at 13% p.a. at CI for 2 years and interest received by him after 2 years is Rs.2325.96. Find X (in Rs.).
(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.

83. Quantity I: Ratio of CP to MP of an article is 19 : 30. Shopkeeper allowed 24% discount and earned 20% profit on selling the article. If SP of the article is Rs.912, then find difference between amount of profit earned and amount of discount allowed (in Rs.).
   Quantity II: Shopkeeper marked an article 70% above its cost price and he allowed 40% discount on it. If shopkeeper sold the article at Rs.183.6, then find sum of amount of profit earned and amount of discount allowed(in Rs.).

(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.

84. Quantity I: A boat can cover distance of 480 km each in downstream and in upstream in total 11 hours. If ratio of speed of boat in still water to that of stream is 11 : 1, then find speed of boat in still water (in km/hr.).

Quantity II: A boat can cover a distance of 350 km in downstream in 3.5 hours and can cover a distance of 380 km in upstream in 5 hours. Find speed of boat in still water (in km/hr.).

(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.

85. Quantity I: B's present age is 60% more than A's present age and ratio of present age of B to that of C is 5 : 2. D is 8 years younger than B and D's present age is twice of that of C. Find average of present age of A, B, C & D (in years).

Quantity II: Present age of R is equal to average of present age of P & Q. 4 years hence, age of P is twice of age of Q at that time. If R is 15 years younger than P, then find age of younger person among P, Q & R.

(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.

Directions (86-91): Study the bar chart given below and answer the following questions.

Bar chart shows the percentage of applicants who applied for renewal of passports on 5 different passport centers (A, B, C, D & E) and percentage of female applicants who applied for renewal of passports out of total applicants who applied for renewal of passports.

☑ % of applicants who applied for renewal of passports
☑ % of female applicants who applied for renewal of passports
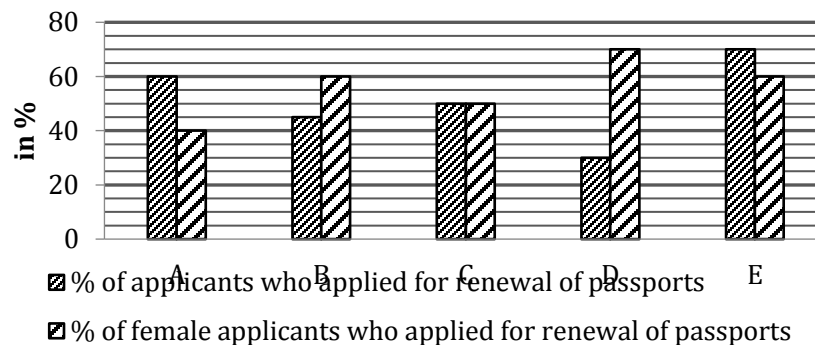
Note: Total number of applicants on a particular center = Number of applicants for new passport on that center + Number of applicants for renewal of passport on that center.

86. If total number of applicants in E are 70% of total number of applicants in A and ratio of male to female applicants who applied for new passports in A & E is 7 : 3 & 2 : 1 respectively, then find ratio of total female applicants in A to total female applicants in E.
(a) 85 : 91   (b) 90 : 91   (c) 90 : 93
(d) 88 : 91   (e) None of the above.

87. If difference between male and female who applied for new passports from C is 800 and ratio of male to female who applied for new passports from C is 2 : 3, then find total female who applied for passports from C is what percent of total male who applied for passports from C?
(a) $120\frac{2}{9}\%$ (b) $122\frac{2}{9}\%$ (c) $125\frac{2}{9}\%$
(d) $116\frac{2}{9}\%$ (e) $130\frac{2}{9}\%$

88. If difference between male and female who applied for renewal of passports from A is 2400, then find number of applicants who applied for new passport from A.
(a) 9000   (b) 6000   (c) 7000
(d) 10000   (e) 8000

89. If total applicants from B are 5000 less than total applicants from E and male applicants who applied for renewal of passports from B is 3600, then find total number of applicants who applied for new passports from B & E together
(a) 18500   (b) 21500   (c) 15500
(d) 19500   (e) 24500

90. If total applicants from C & E together are 30000 and female applicants who applied for renewal of passports from C are 800 more than that of from E, then find average number of applicants who applied for new passports from C & E.
(a) 9000　　　(b) 8000　　　(c) 6500
(d) 4000　　　(e) 11500

91. If ratio of applicants who applied for new passports from A to that of C is 2 : 3, then find total candidates who applied from C is what percent more than total candidates who applied from A?
(a) 80%　　　(b) 50%　　　(c) 90%
(d) 40%　　　(e) 20%

92. When 2 cards are drawn randomly from a pack of cards, then find the probability of getting at most 1 ace card.
(a) $\frac{209}{221}$　　　(b) $\frac{10}{13}$　　　(c) $\frac{215}{221}$
(d) $\frac{16}{17}$　　　(e) $\frac{220}{221}$

93. Ayush invested Rs.75000 in a scheme offering R% p.a. SI for 5 years and Rs.50000 in another scheme offering 12%p.a. CI compounding annually for 2 years. If difference in 2nd year CI and 2nd year SI is Rs.2220, then find value of R%.
(a) 4%　　　(b) 8%　　　(c) 6%
(d) 12%　　　(e) 14%

94. Train – Y crosses Train – X while running in same direction in 120 seconds and Train – Y crosses Train – X in $\frac{40}{3}$ seconds while running in opposite direction. If Train – X is running at 120 km/hr, then find speed of Train – Y (in km/hr).
(a) 150　　　(b) 180　　　(c) 200
(d) 160　　　(e) None of the above.

95. A two digit number increased by 27 when its digits are reversed and square of digit at units place is 33 more than the square of the digit at tens place of the original number respectively. Find the original number.
(a) 69　　　(b) 58　　　(c) 25
(d) 14　　　(e) None of the above.

Directions (96-100): Study the passage given below and answer the following questions.

There are 3 cities – Delhi, Dhaka and Bangkok. Total distance between Delhi – Dhaka, Dhaka – Bangkok and Delhi – Bangkok is 19800 km. Distance between Dhaka – Bangkok is 80% of the distance between Delhi – Bangkok and ratio of distance between Delhi – Dhaka to distance between Bangkok – Dhaka is 27 : 32.

Fares of 3 different flight operators (A, B & C) on these 3 routes (Delhi – Dhaka, Dhaka – Bangkok and Delhi – Bangkok) are –

Delhi – Dhaka: Fare of C is 25% more than that of B and fare of A is Rs.2700 less than that of B. Ratio of fare of A to that of C is 3 : 5.

Delhi – Bangkok: Average fare of A & B is Rs.20000 and fare of C is Rs.8000 more than average fare of A & B. Average fare of B & C is Rs.26000.

Dhaka – Bangkok: Fare of B is Rs.16000 and ratio of fare of A to that of B to that of C is 6 : 5 : 8.

96. If Veer wants to travel from Delhi – Dhaka and then Dhaka – Bangkok without changing flight operator, then which flight operator would be the cheapest option among A, B & C for Veer.
(a) A　　　(b) B　　　(c) C
(d) Either A or B　(e) Either A or C

97. If Deepak is travelling from Dhaka – Bangkok and Bangkok – Delhi from C, then find the amount paid by Deepak per km for the entire trip.
(a) Rs. 3.11/km　(b) Rs. 3.98/km　(c) Rs. 3.42/km
(d) Rs. 3.62/km　(e) Rs. 3.01/km

98. For which of the following trip, the fare will be maximum?
(a) A, Delhi – Bangkok
(b) C, Delhi – Dhaka
(c) B, Dhaka - Bangkok
(d) A, Dhaka – Bangkok
(e) B, Delhi - Dhaka

99. On Dhaka – Bangkok route, which flight operator is charging lowest fare per km?
(a) A　　　(b) B　　　(c) C
(d) Either B or C　(e) Cannot be determined.

100. Find average fare of A, B & C on Delhi – Dhaka route.
(a) Rs.12000　　(b) Rs.11500　　(c) Rs.10400
(d) Rs.11200　　(e) Rs.10800

ENGLISH LANGUAGE

Directions (101-105): Read the passage carefully and answer the questions based on the passage.

Enjoyed by humans since prehistoric times, music has been variously described as the food of love, a shorthand for emotion, and the universal language of humankind. For some, those seemingly rare individuals who do not express an enthusiasm for music are viewed with deep suspicion, like those who don't eat chocolate, who are unmoved by Shakespearean drama, or who fail to express delight over

an Ashes victory. Yet recently the assumption that the enjoyment of music is a near-universal human trait has been questioned, with evidence that some people simply don't derive pleasure from music, and that this does not reflect or result from a general lack of pleasure in life's activities. It is evident that these systems evolved to process stimuli of biological significance: the ability to discriminate tones in human speech provides information about the gender, size and emotional state of the speaker, and _____(1)_____ in some languages. Music is assumed to be a fortuitous by-product of this evolutionary development, and is more fully processed in the brain's right hemisphere, which is more associated with the representation of emotions than the left hemisphere.

It has been theorised that aesthetic responses to music may derive from the similarity of musical tones to tonal characteristics of human speech associated with different emotional states. If so, it would be hypothesised that the pleasure one finds in music would be related to skills in and enjoyment of social intercourse. Conversely, a lack of musical appreciation would predict deficiencies in social engagement: in Shakespeare's words, for the man that hath no music in himself, "the motions of his spirit are dull as night and his affections dark as Erebus: Let no such man be trusted". The inability to enjoy music has been investigated by a team of Spanish researchers, who started with the assumption that the condition may result from deficits in music perception – termed amusia – or a more general inability to derive pleasure from everyday activities – formally labelled anhedonia.

In Current Biology the research team reported on their investigation of the hypothesis that those who do not enjoy music may exhibit broader abnormalities of the systems of the brain involved in reward, motivation and arousal. They examined three groups of participants with high, average and low pleasure ratings in response to music. They undertook a monetary incentive delay task, which required them to respond quickly to targets in order to earn or avoid losing real money. The results confirmed that some otherwise healthy and happy people with normal music perception report that they do not enjoy music and show no autonomic responses to its presentation. This occurs in the presence of a normal behavioural and physiological response to monetary rewards, which demonstrates that a lack of enjoyment of music is not associated with general dysfunction in the brain's reward network. This demonstration of the existence of a domain-specific anhedonia – in this case, specific musical anhedonia – suggests that there are individual differences in access to the brain's reward system.

101. How has the author biologically connected music with emotions?
  (a) general improper functioning of brain to lead to imbalance of emotions thus resulting in music anhedonia
  (b) both of them are processes within the right hemisphere of the brain
  (c) reduction in the activity of certain hemisphere of the brain affects emotions thus reducing joy arising from music
  (d) both (a) and (b)
  (e) all are correct

102. Which of the following statement is not correct in context of the study conducted in relation to music anhedonia?
  (a) there were certain complete normal and healthful participants who didn't enjoy music
  (b) they deduced that even within a usual brain functioning and response mechanism, it was possible not to enjoy music
  (c) researchers had used monetary incentive within the study they conducted
  (d) lack of ability to enjoy could be clearly related to malfunctioned responses towards rewards
  (e) not feeling the pleasure of music might be related with larger malfunctioning within the brain

103. Which of the following statement can be inferred from the passage given above?
  (i) Specific musical anhedonics show reduced functional connectivity between cortical regions associated with auditory processing.
  (ii) While most people enjoy music and find it rewarding, there is substantial individual variability in the experience and degree of music-induced reward.
  (iii) While music may be the universal language, it doesn't speak to everyone.
  (a) only (iii)
  (b) only (i) and (ii)
  (c) only (ii) and (iii)
  (d) all of the above
  (e) none of these

104. What would be the presumption drawn in case there exists a connection between response to music and characteristics of human speech?
  (a) lack of brain connectivity with fluency of speech might result to anhedonia
  (b) music would fail to acquire reward value if a person isn't able to identify emotions through speech
  (c) a person enjoying social dealings would find pleasure in music
  (d) subjects could be insensible to music if they lack the ability to speak
  (e) none of these

105. Which of the following phrases could fit in the blank (1), to make the statement grammatically correct and contextually meaningful?
(a) sensitivity based on their responses
(b) measuring their level of sensitivity
(c) origins of specific musical anhedonia
(d) differentiates meaning of utterances
(e) none of these

Directions (**106-110**): In each of the given questions, a pair of words has been given which is then followed by three statements. Find the statements where both the words grammatically and contextually fit in the given statements.

106. Equip: Arm
(a) A vassal needed economic resources to _____ the cavalry he was bound to contribute to his lord to fight his frequent wars.

(b) Readers may not even notice some of the more _____ elements like word balloons that get cut off by the panel borders.
(c) The stick was used to launch the missile with more force and accuracy than could be accomplished by simply hurling it with the _____ alone
(a) Only A   (b) Only B   (c) Both A & B
(d) Both B & C   (e) All of the above

107. Ponder: Study
(a) Take a few minutes and _____ the question before you jump to a conclusion.
(b) Conjoint repression of civil and religious liberty had made thoughtful men _____ matters of church polity.
(c) The purpose of this _____ is to document the structure of a warm front in northeast Europe.
(a) Only A   (b) Only B   (c) Both B & C
(d) Both A & B   (e) None of these

108. Anomaly: Departure
(a) Since my son has a history of failing classes, his good grades are a welcome _____.
(b) It was quite an/a _____ when the temperature reached 101 degrees in December in Michigan.
(c) The attention of the council was drawn to an/a _____ in the existing arrangements for patients suffering from pulmonary tuberculosis.
(a) Only A   (b) Only B   (c) Only C
(d) Both A & C   (e) All (A), (B), (C)

109. Accolade: Recognition
(a) Facebook has lost a federal appeal in a lawsuit over facial _____ data, setting the company up to face a massive damages payment over its privacy practices.
(b) A majority of workers with university degrees say they won't enrol in new training unless they get _____ for prior training and experience.

(c) For their exceptional bravery the firefighters received _____ from both local and national officials
(a) All A, B & C   (b) Both A & B   (c) Both B & C
(d) Only C   (e) None of these

110. Pinnacle: Height
(a) He's about the same _____ and weight but he's younger.
(b) Edward reached the _____ of the political world when he was elected prime minister of his country
(c) At last we could see Ambadji on a _____ ahead of us
(a) Both A & C   (b) Both B & C   (c) Both A & B
(d) All A, B, C   (e) Only B

Directions (**111-115**): In each of the given questions, a word has been highlighted in the statement. In the options given below, a pair of words has been given. Find the pair of the word where the first word is the synonym of the highlighted word whereas the second word is the antonym of the given word.

111. Valour and sacrifice of the Armed Forces will be honoured at this year's India Day parade, the largest parade outside India to mark the country's independence that brings together thousands of members of the diaspora for one of the biggest cultural extravaganzas in the US.
(a) timidity: wimpiness   (b) audacity: fortitude
(c) gallantry: cojone   (d) bravery: cowardice
(e) none of these

112. Veteran attorneys interviewed by the Guardian said Epstein's death would not **impede** federal prosecutors from pursuing conspiracy cases against others.
(a) extol: substitute   (b) facilitate: hinder
(c) withstand: surrender   (d) abstruse: remission
(e) restrain: expedite

113. The U.S. **appreciates** Turkey and Russia's efforts to reach a cease-fire in Idlib's de-escalation zone and underlined that the attacks targeting civilians must stop
(a) asinine: recuperate   (b) rectify: avenge
(c) acknowledge: disparage (d) tarnish: eschew
(e) exaggerate: entail

114. During the outing, Isha was seen donning a simple yet **elegant** white kurta and palazzo set with floral print and gold gotta patti work from the house of Sabyasachi.
(a) diminutive: prolific   (b) graceful: gauche
(c) conceit: timid   (d) handy: redundant
(e) none of these

115. Farmers **abhor** selling corn at harvest, Utterback acknowledges. "But getting rid of 2019 corn sooner than later would be prudent — don't hold onto it until next summer," he says.
(a) commend: derelish   (b) applaud: acclaim
(c) abominate: execrate   (d) loathe: admire
(e) disdain: despise

Directions (**116-120**): Given below are five statements, followed by a set of questions. Answer each of the question based on the given statements.
(a) Whatever one may (A)/ say of her, no one (B)/ dare call in question (C)/ her honesty of purpose. (D)/ No error (E)
(b) When Mrs. Paul heard his knock,(A)/ she went to the door and opened it, (B)/but she did not recognize him at first (C)/because she was not wearing her glasses.(D)/ No error (E)
(c) Following a succession of Nazi defeats and the suicide (A)/of Adolf Hitler, Germany signed the instrument of surrender on May 7, 1945, (B)/in Reims in eastern France. The document stipulated (C)/ that hostilities had to cease tomorrow. (D)/ No Error (E)
(d) Loui and Satpute will use a similar (A)/physiological test, in addition to (B)/issuing two kinds of surveys, to triple-check that their (C)/ participants truly have musical anhedonia. (D)/ No Error (E)
(e) We would have enjoyed the (A)/ journey more if the old lady in (B)/the adjacent compartment (C)/ would not have snorted all the time. (D)/ No Error (E)

116. Which of the following parts in statement (A) has error?
(a) C   (b) B   (c) D
(d) A   (e) No Error

117. Which of the following parts in statement (B) has error?
(a) B   (b) C   (c) D
(d) A   (e) No Error

118. Which of the following parts in statement (C) has error?
(a) C   (b) A   (c) B
(d) D   (e) No Error

119. Which of the following parts in statement (D) has error?
(a) A   (b) C   (c) D
(d) B   (e) No Error

120. Which of the following parts in statement (E) has error?
(a) B   (b) D   (c) A
(d) C   (e) No Error

Directions (**121-125**): Read the following passage and answer the following questions. Some words are highlighted to help you answer some of the questions.

The last decade has seen many changes and considerable progress in the Indian car industry. The country became the fourth largest market for passenger cars. Domestic sales grew at 8 percent annually, reaching 3.4 million cars in 2018-19. Considering the country's potential and needs, this was not satisfactory. In the previous decade, growth was at 15 percent. Car penetration is only 28 per thousand, far lower than most Southeast Asian countries. The entry of global players into the Indian market and cars being of international standards led to exports increasing to 680,000 vehicles in 2018-19. Safety and emission standards during 2019-20 are similar to Europe, with all vehicles converting to Bharat VI by the end of March 2020. This has meant an increase in the cost of vehicles and _____.

The Indian consumer was used to seeing car models remaining unchanged for long periods. Intense competition in the market saw all manufacturers launching or upgrading existing models in fairly short intervals. The industry became more like that of a developed country. Competition also led to better technology benefiting the consumer. The average fuel efficiency of cars increased from about 16 km per litre to 19.2 km per litre. This resulted not only in reducing fuel consumption but also lowered CO2 emissions.

The sale of automatic transmission cars, which was negligible at the start of the decade, increased to 12 percent, largely because of the introduction of the lower cost manual automatic transmission, which gave the benefit of not increasing fuel consumption. Car sales extended beyond bigger cities to rural areas and small towns, a positive sign for the future of this industry. Maruti Suzuki sales in 'rural areas' increased from about 5 percent to 40 percent.

An important **driver** of sales growth was the increasing availability of finance for car purchases. The number of consumers who bought cars with borrowed funds increased from 66 to 80 percent. Non-banking financial institutions became important participants in enabling this growth. A major cause of the slowdown of sales in 2019-20 was the difficulty in the availability of finance due to problems in the financial sector. The decade saw the introduction and acceptance of shared platform operators like Uber and Ola. The emerging young car buyer often preferred not to buy a car so that he could enjoy many other experiences that were now available.

Diesel car sales had risen earlier in the decade, but are now in decline. Meeting Bharat VI norms has added considerably to cost. In addition, the Supreme Court ordered that diesel cars older than 10 years would not be allowed in the NCR. In other cases, where a percentage tax was prescribed, the rate was increased. As car prices increased, the amount of road tax went up. Slowing of growth is related to many customers not being able to afford the higher costs of acquisition.

121. What were the impetus for the decline of the sales growth in car industry at the end of the decade?
   (a) Financial sector of the country was struggling.
   (b) Launch of shared platform operators such as OLA and Uber.
   (c) Increase in the cost due to the implementation of BHARAT VI.
   (d) Restriction of Diesel cars older than 10 years in the NCR region
   (e) All of these

122. According to the author, what were the reasons that can quote the similarities between the car industry of India and a developed nation?
   (I) Commencement of shared platform operators like Uber and Ola.
   (II) Existing models were ameliorated and introduced in short interludes.
   (III) alleviation in fuel consumption led to the depletion of CO_2 particulate matter.
   (a) Only (I)   (b) Both (I) and (III)
   (c) Only (II)   (d) Both (II) and (III)
   (e) None of these.

123. Which of the following phrase can be used to fill the blank (A)?
   (a) acceleration in the sales growth
   (b) leading to switching to alternatives
   (c) partly explains the slowing of growth
   (d) amplifying the CO_2 emissions
   (e) None of these.

124. Which of the following statements is FALSE with reference to the passage?
   (I) Bharat VI is an emission standard that brings changes in the Indian automobile industry in terms of pollutant emissions.
   (II) Imports have increased due to the admittance of foreign companies in Indian economy
   (III) Domestic sales in automobile industry declined at the end of the decade.
   (a) Both (I) and (III)   (b) only (II)
   (c) Only (III)   (d) Only (I)
   (e) None of these.

125. According to the passage, choose the most suitable word that reflects the synonym of the highlighted word.
   DRIVER
   (a) straphanger   (b) catalyst   (c) prototype
   (d) chauffer   (e) None of these.

Directions (**126-130**): In each of the questions given below, a situation has been stated. Answer the question, based on the paragraph.

126. 'X' is a longtime employee true to the company and respected, maybe even revered, by the workforce. But he just does not seem to be supportive of the company's lean initiative. Even worse, 'X' is beginning to negatively influence some employees. 'X' is _____ about company's lean initiative?
   (a) empathetic   (b) scientific   (c) passionate
   (d) pessimistic   (e) discreet

127. 'Y' was a manager at hotel. After his retirement he started his own food outlet in a small town and gained success. Later, due to some construction plans of government, 'Y' has to close down his business in the area. He again purchases the land in another area, starts his business and works for the success of his restaurant, day and night. 'Y' is a _____ person?
   (a) hardworking (b) persevering   (c) diligent
   (d) enthusiastic   (e) all of the above

128. Two goats came face to face while crossing a narrow bridge. "Let me pass", said one of them. "Never, you get out of my way", said the other goat. They quarrel each other and lost their balance. They fell into the stream down below and died! Both the goats were _____.
   (a) intuitive   (b) stubborn   (c) persuasive
   (d) epicurean   (e) all of the above

129. Today, at the animal shelter where I volunteer, a little boy and his mom, who had adopted a kitten last week, came into our lobby carrying big bags full of food, toys, blankets, and other supplies we desperately need. The boy's mom said, 'Today is his birthday. Instead of birthday presents, he asked his dad and me to help donate to the shelter. The boy was _____.
   (a) dramatic   (b) creative   (c) courageous
   (d) generous   (e) none of the above

130. Bob decided to try his skates, for he had received a pair of shiny new ones for Christmas. His dog, Spot, went with him. When Bob reached the pond, he did not stop to test the ice. He was having a delightful time when suddenly Spot began to bark, for his keen ears had caught the sound of cracking ice. Bob did not heed him, but kept on skating. Suddenly the ice gave way. Spot dashed to the place where his little master had disappeared and with some difficulty succeeded in pulling him out. Spot was a _____ dog.
   (a) honest   (b) faithful   (c) leader
   (d) cultured   (e) notorious

Directions (131-135): Read the passage given below and answer the questions based on the information provided in the passage. Certain words have been highlighted to aid in answering the questions.

The shooting down of a passenger plane by Iran's military on Wednesday, a few hours after it launched missile attacks on U.S. troops in Iraq, is the most tragic outcome of the recent spike in U.S.-Iran tensions. The Ukrainian jet with 176 aboard was hit by an Iranian surface-to-air missile shortly after it took off from Tehran's Imam Khomeini Airport. After initially rejecting western assertion that an Iranian missile brought down the plane, Tehran on Saturday said one of its soldiers fired the missile, mistaking the jet for an enemy aircraft "as it turned to a sensitive area". This is not the first time U.S.-Iran tensions have led to an aviation disaster. In 1988, in the last stage of the Iran-Iraq war, a U.S. Navy warship shot down an Iran Air flight over the Gulf, killing all 290 passengers. Then the U.S. troops said they mistook the plane for a military aircraft that was going to attack the ship. Iran says the same today. In both incidents, innocents, who did not have anything to do with the conflict, became victims.

This time it was U.S. President Donald Trump's reckless decision to assassinate Soleimani that pushed both___**(A)**____. After launching missiles at U.S. troops in Iraq in retaliation for the General's killing, Iran's missile defence systems were on high alert, anticipating **retaliatory** American air strikes. Iran blames "human error" for the attack on the passenger plane. But whatever the context is, it cannot abdicate responsibility for what happened. Ukraine International Airlines says the flight took off after clearance from the airport. The airline also rejects the Iranian military's claim that the plane veered off its route. Iran's admission and apology is a step in the right direction. But it should carry out, along with international investigators, a thorough probe into what led to the "accident", and punish whoever is responsible for the "human error". Such mistakes are unacceptable even in war. Iran should have put in place the highest safety measures and followed international protocols while preparing itself for enemy retaliation. Clearly it did not do so. And innocent people paid a price for Iran's mistake. Both Iran and the U.S. should also ask themselves whether the confrontational path they have chosen since Mr. Trump unilaterally pulled the U.S. out of the Iran nuclear deal, in May 2018, was worth the risk. Both countries were on the brink of an all-out war early this week. At least 226 people, mostly Iranians, have already lost their lives in tragedies related to the Soleimani killing (over 50 were killed in a stampede at the funeral). If Iran is sincere in its apology, it should not only unearth what happened and punish the culprits but also take immediate steps to reduce tensions with the U.S.

31. What are the steps that Iran can take in order to bring justice to the victims of the Plane crash?
   (a) Wage a full-fledged war against the Americans and eliminate the attackers of Soleimani.
   (b) Prevent any plane from entering the airspace of Iran to disrupt the aviation network worldwide.
   (c) Increase the oil prices to bleed countries financially and show the world the might of Iran.
   (d) Enable a thorough investigation to unravel the sequence of events which led to the tragic crash in order to punish the guilty as well as de-escalate with America to prevent such future events.
   (e) (d) and (c)

132. Which of the following phrase could fit in the blank (A), to make the statement grammatically correct and contextually meaningful?
   (a) to rethink whether their capability to educate people was lacking.
   (b) countries to have an all-time high cooperation in the fields of military and technology,
   (c) countries to the brink of a war.
   (d) to make friends with Iran to win the military games being organized this year.
   (e) None of the above

133. What was the reason given by the Iranian government for the accidental shooting down of the civilian aircraft?
   (a) The plane had an American flag painted on its wing causing the soldiers to think it was an enemy plane.
   (b) The plane had strayed into a sensitive zone prompting the attack which resulted in the devastating accident
   (c) The flight had taken off without clearance from the Tehran's Imam Khomeini Airport and was declared a threat to national security.
   (d) There was an intelligence input regarding the presence of Americas top general being present in the plane and the attack was a way to kill him
   (e) (b)& (d)

134. Which of the following word is similar to **retaliatory** as mentioned in the passage given above?
   (a) redemption   (b)vengeance   (c)brisk
   (d) hostility   (e) None of the above

135. Which of the statements true in the options given below with respect to the passage?
   (a) Iran took onus of the accident as soon as the news started to do rounds in the media.
   (b) The aircraft was shot down without human intervention as Iran had activated emergency wartime protocols.
   (c) President Trump withdrew from the Iran nuclear deal without consulting Iran.
   (d) It is the for the first time that such a kind of aviation disaster has taken place in Iran.
   (e) None of the above

Directions (136-140): Read the passage carefully and answer the questions based on the passage.

2010 was an exciting year for ecommerce. Among other innovations, smartphones and tablets started _____(A)_____ and, in no time, these devices became the de facto choice for people to make online purchases, inspiring a flurry of technological developments. This set the tone for a decade in which online retail exploded. **(B)** This was the phase during which we **(1) estimated** BigBasket, in 2011, at a time the **(2) launched** worth of the **(3) ecommerce** market in India was (**4) pegged** at $6.3 billion. By 2017, it grew to $38.5 billion and, by 2026, it is projected to touch $200 billion. **(C)** *As we step into the new decade, here's my take on some definitive trends that will shape the Indian retail sector in the next few years, and pave the way for this growth.*

For a country with the second-highest base of internet users in the world, India surprisingly falls behind when it comes to the percentage of people who shop online. Today, _____(D)_____ in India shop online while the remaining prefer to use the internet only for product research, communication, entertainment and other purposes. What this means is that retailers are sitting on a **(E)habitable** goldmine of potential customers and have the opportunity to tap into over $50 million worth of ecommerce transactions, driven by over 500 million first-timers to the internet and online shopping; a majority of these users are from 'Bharat', the India of small towns and rural areas. According to a Google-AT Kearney report, by the end of next year, there would be around 175 million online shoppers in India.

36. 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) As the tumour grows, cells towards its centre, being deprived of vital nutrients, cease _____ and become quiescent.
  (II) This obsession with food choice often leads people to cut out the wrong ones, _____ the continuation of new diets.
  (a) affiliating   (b) proliferating   (c) enriching
  (d) alleviating   (e) None of these

137. The sentence given in (B) has four words given in bold. Amongst the given bold words which of the followings must interchange to make the sentence grammatically and contextually correct and meaningful?
  (a) 1-2   (b) 2-3   (c) 2-4
  (d) 3-4   (e) None of these.

138. In the above passage, a sentence (C) is given in Italics. There may or may not be an error in one part of the sentence. Choose the part which has an error in it as your answer. If there is no error, then choose option (e) as your answer.
 (a)   As we step into the new decade,
  (b)   here's my take on some definitive trends that will shape
  (c)   shape the Indian retail sector in the next few years,
  (d)   and pave the way for this growth.
  (e)   No error

139. Choose the most suitable phrase for blank (D) to make the sentence grammatically and contextually correct.
  (a)   ecommerce market is being driven by electronics
  (b)   India's retail universe and the motto will be embracing
  (c)   Technology has already enabled consumers
  (d)   just 10 percent of the 500 million active internet users
  (e)   None of these

140. A word is given in bold in (E). Choose the word which should replace the word given in bold to make the sentence correct and meaningful. If no change is required, choose option (e) as your answer.
  (a) virtual   (b) ablaze   (c) abrasive
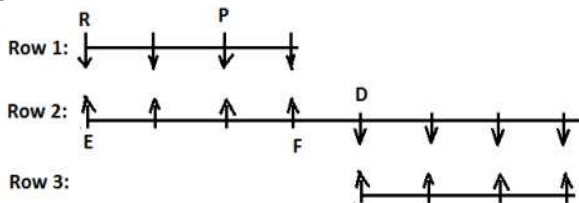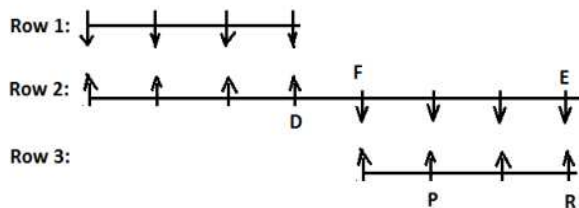 (d) veritable   (e) No change required
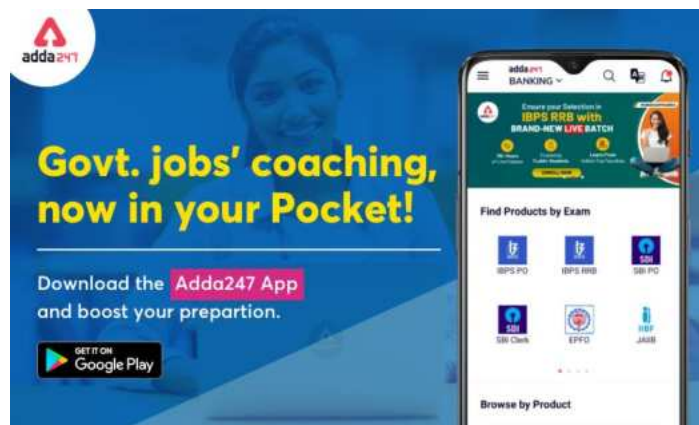
REASONING ABILITY

Directions (1-5): E faces the one who sits second to the right of P. No one sits on the left of E. Only one person sits between P and R. Only two person 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.
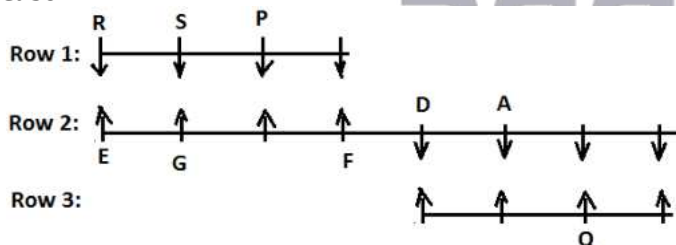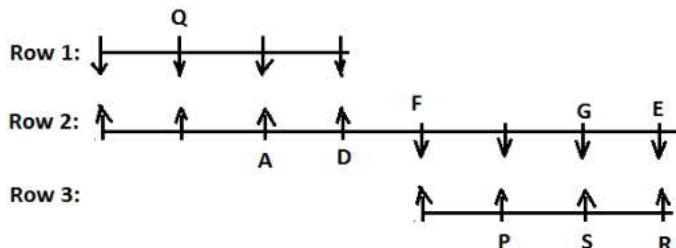
Case 1

Case 2

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.
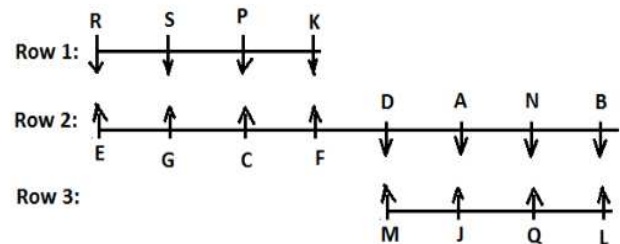
Case 1

Case 2

Only one person 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 faces D. Only two person sits between M and L. More than two persons sits between B and C, who does not faces L.

Case 1

Case 2
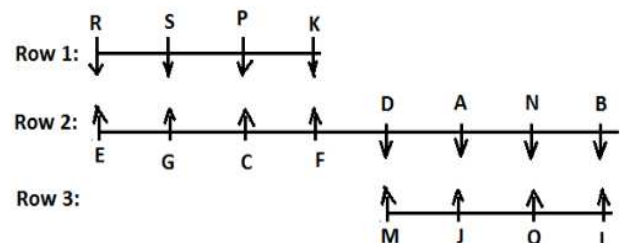
C does not face south. So case 2 gets eliminated.
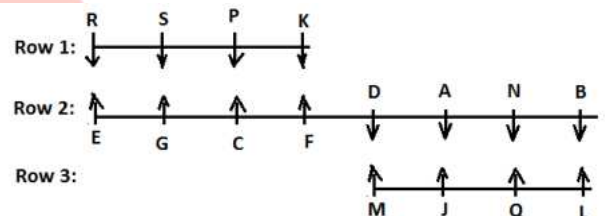
1. (c); 2. (b); 3. (c);
4. (d); 5. (c);

Directions (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 firs step the highest number is arranged first and then in the second step 2nd 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: IMRE 40 69 RBHI 86 PMCN 25 KDSM 57 VATW
Step I: 91 IMRE 40 69 RBHI PMCN 25 KDSM 57 ATVW
Step II: 64 91 IMRE 40 PMCN 25 KDSM 57 ATVW BHIR
Step III: 52 64 91 IMRE 40 25 KDSM ATVW BHIR CMNP
Step IV: 45 52 64 91 IMRE 25 ATVW BHIR CMNP DKMS
Step V: 20 45 52 64 91 ATVW BHIR CMNP DKMS EIMR
Step V is the last step of the rearrangement.

6. (a);   **7. (d);**   **8.   (b);**
9. (a);   **10. (d);**

11. (c);   **12. (b);**

Directions (13-15):
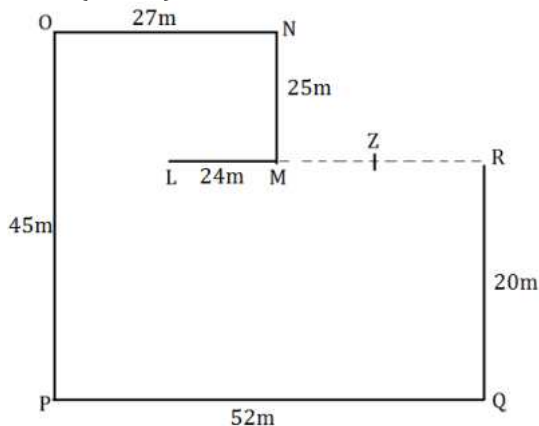
13. (c);

14. (c);

15. (e);

Directions (16-20):

16. (b); I. N % O (False)   **II.** O & M (True)

17. (b); I. A * D (False)   **II.** D & B (True)

18. (a); I. H & K (True)   **II.** T * J (False)

19. (c); I. B & G (False)   **II.** G @ B (False)

20. (a); I. M & L (True)   **II.** V * W (False)

Direction (21-25):
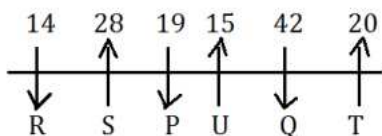
21. (d);   **22. (d);**   **23. (c);**
24. (a);   **25. (b);**

Direction (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. (e);   **27. (d);**   **28. (e);**
29. (b);   **30. (b);**

31. (c);
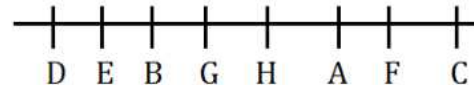
32. (d); Only (I) can be assumed from the given statement as it is mentioned in the given statement that rooftop solar power technology is showing growth.

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.

Direction (34-38):

34. (b);   **35. (a);**   **36. (b);**
37. (b);   **38. (d);**

Direction (39-40):

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.

Directions (41-45): There is only one box is kept between box E and box having 25 pens. Box D is kept immediately above the box containing 63 pens. Box E does not contain 63 pens. Only three boxes are kept between box D and the box containing 12 pens.

Position of box	Case 1 Box	Case 1 No. of pens	Case 2 Box	Case 2 No. of pens	Case 3 Box	Case 3 No. of pens
9th	D		D			
8th		63		63		
7th					D	
6th			E			63
5th		12		12		
4th		25		25		25
3rd						12
2nd	E				E	
1st						

Only two boxes are kept between box H and the box having 12 pens. More than three boxes are kept between box C and box H. The box having pens which is a perfect square of 3 is kept immediately above box C. The number of pens in box D is equal to the sum of the number of pens in box H and the box which is placed at 2nd position. (i.e. Box H contains 63 pens and 2nd position box contains 9 pens so total number of pens in box D is =(63+9)=72 pens but it is given that 9th position box contains number of pens which is a multiple of 10). So, case 1 and case 2 gets eliminated.

Position of box	Case 1 Box	Case 1 No. of pens	Case 2 Box	Case 2 No. of pens	Case 3 Box	Case 3 No. of pens
9th	~~D~~	~~72~~	~~D~~	~~72~~		
8th	~~H~~	~~63~~	~~H~~	~~63~~		
7th					D	72
6th			~~E~~		H	63
5th		~~12~~		~~12~~		
4th		~~25~~		~~25~~		25
3rd						12
2nd	~~E~~	~~9~~		~~9~~	E	9
1st	~~C~~		~~C~~		C	

Only two boxes are kept between the box having 42 pens and box A. Box I is kept at the odd number position but immediately below box F. The number of pens in Box G is equal to the difference between the number of pens in box D and box I. Box B is kept above the box having 8 pens. Box G contains 21 less pens than box A contains.

Position of box	Case 3 Box	Case 3 No. of pens
9th	G	60
8th	A	81
7th	D	72
6th	H	63
5th	B	42
4th	F	25
3rd	I	12
2nd	E	9
1st	C	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.
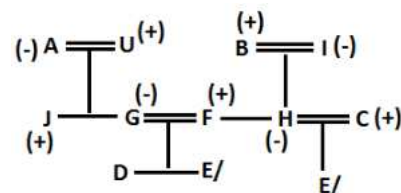
47. (d); I is an assumption. II is a suggestion but not a conclusion. Hence, neither I nor II follows.
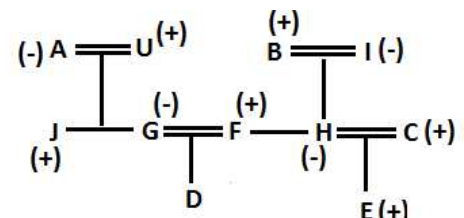
Directions: (48-50):

48. (e);

49. (b);

50. (d);
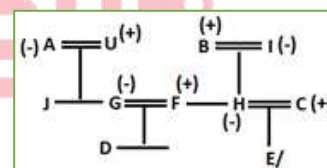
51. (b); Let number of notes on which 50% return is given and on which 80% return is given of PNB be 5x and 7x respectively.
ATQ,
7x – 5x = 1000
x = 500
So, number of notes on which 100% return is given by PNB = 15000 – (7 + 5) × 500
= 9000
Required % = $\frac{9000}{24000} \times 100 = 37.5\%$

52. (a); Let total number of notes received by BOI be 100x.
So, number of notes on which BOI gave 100% return = 75x
And number of notes on which BOI gave 50% return = $25x \times \frac{3}{8}$
ATQ,
$75x + \frac{75x}{8} = 13500$
⇒ x = 160
Hence, total amount received by BOI= 20×160×100
= Rs.3,20,000
And total amount received by Axis bank
= 20 × 10000 = Rs.2,00,000
Required difference = 3,20,000 - 2,00,000
= Rs.1,20,000

53. (c); Number of notes on which BOB gave 100% return
$= \frac{80}{100} \times 15000 = 12,000$
Number of notes on which BOB gave 80% return
$= (24000 - 12000) \times \frac{4}{5} = 9,600$
Required ratio = $\frac{9600}{12000} = 4:5$

54. (d); Total number of notes received by SBI
$= \frac{9,00,000}{20} = 45,000$
Total number of notes received by BOI
$= \frac{60}{100} \times 45000 = 27,000$
Required average = $\frac{15,000+45,000+10,000+27,000+24,000}{5}$
$= \frac{1,21,000}{5} = 24,200$

55. (e); Number of notes on which 100% return is given by PNB = $\frac{50}{100} \times 15000 = 7500$
Number of notes on which 50% return is given by PNB = $(15000 - 7500) \times \frac{5}{12} = 3125$
Number of notes on which 80% return is given by PNB = 15000 − 7500 − 3125 = 4375
Required amount = $(15000 \times 20) - (7500 \times 20) - (3125 \times 10) - (4375 \times 16)$
= 300000 − 150000 − 31250 − 70000
= Rs.48,750

56. (e); Let number of notes on which PNB gave 50% return and 80% return be 5x and 7x respectively.
ATQ,
$7x - 5x = 1500$
$x = 750$
So, number of notes on which PNB gave 100% return = $15000 - (7x + 5x)$
$= 15000 - 12 \times 750 = 6000$
Now, number of notes on which Axis bank gave 80% return = $5 \times 750 - 1750$
= 2000
So, number of notes on which Axis bank gave 100% return = $10000 - 2000 - 2000 \times \frac{1}{4}$
= 7500
Required number of notes = 6000 + 7500
= 13500

57. (b); Let A's monthly salary be Rs.100x
So, A's expenditure on house rent = 30x
And, A's expenditure on clothing
$= (100x - 30x) \times \frac{40}{100} = 28x$
Monthly amount given by A to his son = $(100x - 30x - 28x) \times \frac{4}{14} = 12x$
ATQ,
$28x - 12x = 24000$
$x = 1500$
A's annual expenditure on house rent = $30 \times 1500 \times 12$
= Rs.540000

58. (c); Let efficiency of A be x units/day.
So, efficiency of C = $\frac{400}{100} \times x = 4x$ units/day
And, efficiency of B = $4x \times \frac{3}{2}$
= 6x units/day
Now, total work = $33 \times x = 33x$ units
Required days = $\frac{33x}{x+6x+4x} = 3$ days

59. (d); Let amount invested by A be Rs.x
So, amount invested by B = $3 \times x$
= Rs.3x
And, amount invested by C = $3x \times \frac{1}{2}$
= Rs.1.5x
Now, profit sharing ratio of A : B : C
$= \big((x \times 11) + ((x - Y) \times 1)\big) : \big((3x \times 11) + ((3x - Y) \times 1)\big) : \big((1.5x \times 11) + ((1.5x - Y) \times 1)\big)$
$= (12x - Y) : (36x - Y) : (18x - Y)$

ATQ,

$\frac{18x-Y}{12x-Y+36x-Y+18x-Y} = \frac{35}{129}$

$\Rightarrow \frac{18x-Y}{66x-3Y} = \frac{35}{129}$

$\Rightarrow 774x - 43Y = 770x - 35Y$

$\Rightarrow x = 2Y$

Required profit sharing ratio $= \frac{12x-Y}{36x-Y}$

$= \frac{24Y-Y}{72Y-Y} \Rightarrow 23 : 71$

60. (e); Let initial quantity of milk and water in the vessel be 30x lit and 10x lit respectively.

Quantity of milk taken out from the vessel $= 80 \times \frac{3}{4}$

= 60 lit

Quantity of water taken out from the vessel = $80 \times \frac{1}{4}$ = 20 lit

ATQ,

$\frac{(30x-60)+80}{10x-20} = \frac{700}{100}$

$\Rightarrow x = 4$

Hence, required original quantity of the vessel

$= 30x + 10x = 160$ lit

61. (b); Number of female employees in C who are newly recruited

$= \left(\left(2000 \times \frac{30}{100}\right) - 350\right) \times \frac{38}{100} = 95$

Number of male employees in C who are newly recruited $= 95 \times \frac{3}{5} = 57$

Required % $= \frac{\left(\left(2000 \times \frac{30}{100}\right)-(95+57)\right)}{2000 \times \frac{30}{100}} \times 100$

$= \frac{600-152}{600} \times 100 = 74\frac{2}{3}\%$

62. (a); Male employees in company $- Y = \frac{400}{100} \times 350 = 1400$

Female employees in company $- Y = 1400 \times \frac{3}{4}$

= 1050

Required difference = (1400 + 1050)–2000 = 450

63. (c); Female employees who left B

$= \left(\left(2000 \times \frac{25}{100}\right) - 225\right) \times \frac{16}{100} = 44$

Female employees in D $= \left(2000 \times \frac{20}{100}\right) - 160 = 240$

Required % $= \frac{(240+44)-240}{240} \times 100 = 18\frac{1}{3}\%$

64. (b); Male employees in company – K

$= \left(\left(2000 \times \frac{25}{100}\right) - 225\right) + 425 = 700$

Average number of female employees in A, C & D in company – X

$= \frac{1}{3} \times \left(\left(2000 \times \frac{75}{100}\right) - (240 + 350 + 160)\right)$

$= \frac{1}{3} \times (750) = 250$

Required difference = 700 – 250 = 450

65. (d); Employees who are in (18-40) age group in A

$= \left(2000 \times \frac{25}{100}\right) \times \frac{13}{25} = 260$

Employees who are in (18-40) age group in B

$= \left(2000 \times \frac{25}{100}\right) \times \frac{13}{50} = 130$

Employees who are in (18-40) age group in C

$= \left(2000 \times \frac{30}{100}\right) \times \frac{4}{5} = 480$

Employees who are in (18-40) age group in D

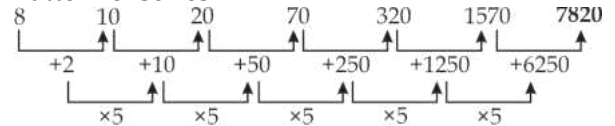$= \left(2000 \times \frac{20}{100}\right) \times \frac{33}{40} = 330$

Employees who are in (40+) age group in A, B, C & D in company – X

$= 2000 - (260 + 130 + 480 + 330) = 800$

Required ratio $= \frac{(260+130+480+330)}{800} = 3 : 2$

66. (a); Wrong number = 7830

Pattern of series –

So, there should be 7820 in place of 7830.

67. (b); Here, the pattern followed is

$18 \times 1 + 2 = 20$

$20 \times 2 + 3 = 43$

$43 \times 3 + 4 = 133$
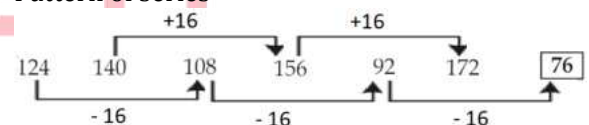
$133 \times 4 + 5 = 537$

$537 \times 5 + 6 = 2691$

$2691 \times 6 + 7 = 16153$

So, wrong number is 16163 which should be replaced by 16153
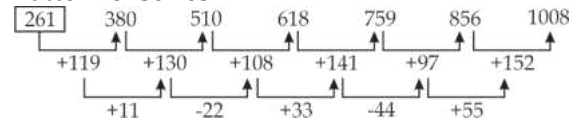
68. (c); Wrong number = 78

Pattern of series –

So, there should be 76 in place of 78.

69. (c); Wrong number = 260

Pattern of series –

So, there should be 261 in place of 260.

70. (e); Wrong number = 2515

Pattern of series –

$267 + 343 = 610$

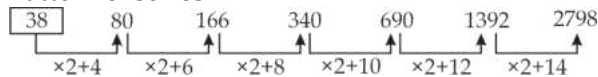$343 + 610 = 953$

$610 + 953 = 1563$

$953 + 1563 = 2516$

$1563 + 2516 = 4079$

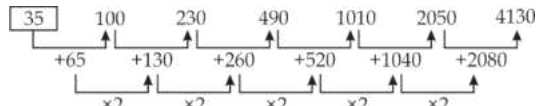So, there should be 2516 in place of 2515.

71. (b); Wrong number = 36

Pattern of series –

So, there should be 38 in place of 36.

72. (a); Wrong number = 30

Pattern of series –

So, there should be 35 in place of 30.

73. (b); Let present age of A and B be 20x years and 50x years respectively.

So, present age of C = $50x \times \frac{18}{25}$
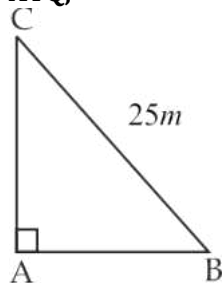
= 36x years

And, present age of D = $36x \times \frac{13}{12}$

= 39x years

ATQ,

$50x - 39x = 11$

$x = 1$

Hence, present age of A = 20x = 20 years

74. (e); ATQ,

Perimeter of triangle ABC = 60

AB + BC + CA = 60

AB + 25 + CA = 60

⇒AB + CA = 35

Now, let length of AB be x m. (as AB is the smallest side)

So, length of CA = $(35 - x)m$

Now,

$(AB)^2 + (CA)^2 = (BC)^2$

$(x)^2 + (35 - x)^2 = (25)^2$

$\Rightarrow x^2 - 35x + 300 = 0$

$\Rightarrow x = 15, 20$

So, length of smallest side is 15m.

75. (a); Let cost price of article – M be Rs.100x.

So, marked price of article – M = $100x \times \frac{120}{100}$

= Rs.120x

And, selling price of article – M = $120x \times \frac{95}{100}$

= Rs.114x

ATQ,

$114x = 285 \Rightarrow x = 2.5$

Hence, cost price of article – N = $\frac{120}{100} \times 100 \times 2.5$

= Rs.300

So, selling price of article – N = $300 \times \frac{115}{100}$ = Rs.345

76. (c); Let number of black, red and white balls be a, b & c respectively.

From I:

ATQ,

$\frac{a}{a+b+c} = \frac{1}{6}$

$\Rightarrow 5a = b + c$ ...(i)

And, $\frac{b}{a+b+c} = \frac{1}{6}$

$\Rightarrow 5b = a + c$ ...(ii)

And, $\frac{c}{a+b+c} = \frac{2}{3}$

$\Rightarrow c = 2a + 2b$ ...(iii)

On solving (i), (ii) & (iii), we get:

a : b : c = 1 : 1 : 4

From II:

ATQ,

$\frac{c-1}{a+b+c-1} = \frac{15}{23}$

$\Rightarrow 8c = 15a + 15b + 8$

From I & II:

Let a, b & c be x, x & 4x respectively.

$\Rightarrow 32x = 15x + 15x + 8$

$\Rightarrow x = 4$

Hence, t = 24

So, **statement I & II** together are necessary to answer the question.

77. (b); From I:

Amount invested by Deepak = $12000 \times \frac{5}{4}$

= Rs.15000

Profit sharing ratio of Shivam to that of Deepak = $(12000 \times 10) : (15000 \times 4)$

= 2 : 1

From II:

Let amount invested by Shivam and Deepak be Rs.4x and Rs.5x respectively.

And let period of investment of Shivam and Deepak be 5y months and 2y months respectively.

Now, profit sharing ratio of Shivam to that of Deepak = $(4x \times 5y) : (5x \times 2y) = 2 : 1$

Now, let total profit be Rs.P.

ATQ,

$\frac{2-1}{3} \times P = 12000$

$\Rightarrow P = Rs.36000$

Hence, profit share of Shivam=$\frac{2}{3}$×36000 = Rs.24000

Hence, **statement II** alone is sufficient to answer the question.

78. (c); From I:

Let cost price of the article be Rs.100x.

So, marked price of the article = $100x \times \frac{180}{100}$

= Rs.180x

And selling price of the article = Rs.(100x + 100)

From II:

Let marked price and discount allowed on the article be Rs.3y and Rs.y respectively.

From I & II:

3y = 180x

⇒ y = 60x

ATQ,

$100x + 100 = 180x - 60x$

⇒ x = 5

So, marked price of the article = 180x

= Rs.900

Hence, **statements I and II** together are sufficient to answer the question.

79. (e); Let rate of interest be R% p.a.

From I:

Let period of investment be t years.

ATQ,

(if sum is invested at SI); $\frac{6000 \times t \times R}{100} = 4500$

⇒ tR = 75

(if sum is invested at CI); $6000 \left(1 + \frac{R}{100}\right)^t = 10500$

From II:

Let amount invested by Pankaj at SI and at CI be Rs.100x

ATQ,

$\left(P\left(\left(1 + \frac{R}{100}\right)^2 - 1\right)\right) - \left(\frac{P \times R \times 2}{100}\right) = 90$

⇒ $PR^2 = 900000$

Hence, **statements I and II** together are not sufficient to answer the question.

80. (a); From I:

Let radius and height of cylinder be r cm and h cm respectively.

ATQ,

$2\pi rh = 1760$

⇒ rh = 280   ....(i)

And, $2\pi r(r + h) = \frac{170}{100} \times 1760$

⇒ $r^2 + rh = 476$ ...(ii)

On solving (i) & (ii), we get:

$r = 14,\ h = 20$

Hence, volume of cylinder = $\pi r^2 h$ = 12320 cm³

From II:

Height of cylinder = $30 \times \frac{2}{3}$ = 20cm

ATQ,

$\pi r^2 \times 20 = 2 \times \frac{1}{3}\pi r^2 \times 30$

It can't be solved further.

Hence, **statement I** alone is sufficient to answer the question.

81. (c); Quantity I:

Total number of ways = $({}^8C_2 \times {}^4C_2) + ({}^8C_1 \times {}^4C_3) + ({}^4C_4)$

= 168 + 32 + 1 = 201

Quantity II:

3-digit numbers which are divisible by 3 and ends with an even number = (102, 108, 114, -------, 996)

Required number of 3 – digit numbers = $\frac{996-102}{6}+1$

= 150

So, Quantity I > Quantity II.

82. (a); Quantity I:

ATQ,

$\frac{5900 \times R \times 3}{100} = 3186$

⇒ $R = 18\%$

Required interest = $\frac{7900 \times (18+5) \times 3}{100}$ = Rs.5451

Quantity II:

Equivalent rate of interest of 13% p.a. for 2 years

at CI = $13 + 13 + \frac{13 \times 13}{100}$ = 27.69%

ATQ,

$\frac{X \times 27.69}{100} = 2325.96$

⇒ X = Rs.8400

So, Quantity I < Quantity II.

83. (c); Quantity I:

Let CP & MP of an article be Rs.19x and Rs.30x respectively.

ATQ,

$19x \times \frac{120}{100} = 912$

⇒ $x = 40$

Required difference = $30x \times \frac{24}{100} - 19x \times \frac{20}{100}$

= $7.2x - 3.8x$ = Rs.136

Quantity II:

Let cost price of the article be Rs.100x

So, marked price of the article = $100x \times \frac{170}{100}$

= Rs.170x

And, selling price of the article = $170x \times \frac{60}{100}$

= Rs.102x

ATQ,

$102x = 183.6$

⇒ $x = 1.8$

Required sum = $170x \times \frac{40}{100} + (102x - 100x)$

= $68x + 2x$ = Rs.126

So, Quantity I > Quantity II.

84. (e); Quantity I:

Let speed of boat in still water & speed of stream be '11x km/hr.' and 'x km/hr.' respectively.

ATQ,

$\frac{480}{11x-x} + \frac{480}{11x+x} = 11$

$\Rightarrow x = 8$

So, speed of boat in still water = 11x = 88 km/hr.

Quantity II:

Let speed of boat in still water & speed of stream be 'a km/hr.' and 'b km/hr.' respectively.

ATQ,

$\frac{350}{3.5} = (a+b)$

$\Rightarrow (a+b) = 100$ ...(i)

And, $\frac{380}{5} = (a-b)$

$\Rightarrow (a-b) = 76$ ...(ii)

On solving (i) & (ii), we get:

a = 88 km/hr.

So, Quantity I = Quantity II.

85. (c); Quantity I:

Let A's present age be 10x years.

So, B's present age = $10x \times \frac{160}{100}$

= 16x years

And, C's present age = $16x \times \frac{2}{5}$ = 6.4x years

And, D's present age = $2 \times 6.4x$

= 12.8x years

ATQ,

$16x - 12.8x = 8$

$\Rightarrow x = 2.5$

Hence, required average = $\frac{10x+16x+6.4x+12.8x}{4}$

= 11.3x = 28.25 years

Quantity II:

Let present age of P be p years.

So, present age of R = $(p-15)$ years

ATQ,

Present age of Q = $(2 \times (p-15)) - p$

= $(p-30)$ years

Now, $(p+4) = 2 \times (p-30+4)$

$\Rightarrow p = 56$

Hence, present age of R = $(p-15)$ years

= 41 years

And, present age of Q = $(p-30)$ years

= 26 years

So, required age = 26 years

So, Quantity I > Quantity II.

86. (b); Let total number of applicants in A be 100x.

So, total number of applicants in E = 70x

Female applicants who applied for renewal of passports from A = $100x \times \frac{60}{100} \times \frac{40}{100}$ = 24x

Female applicants who applied for new passports from A = $100x \times \frac{40}{100} \times \frac{3}{10}$ = 12x

Female applicants who applied for renewal of passports from E = $70x \times \frac{70}{100} \times \frac{60}{100}$ = 29.4x

Female applicants who applied for new passports from E = $70x \times \frac{30}{100} \times \frac{1}{3}$ = 7x

Required ratio = $\frac{24x+12x}{29.4x+7x} = \frac{36x}{36.4x}$ = 90 : 91

87. (b); Let number of male and female who applied for new passports from C be 2x and 3x respectively.

ATQ,

$3x - 2x = 800$

$x = 800$

Total number of applicants for passports from C

= $(3 \times 800 + 2 \times 800) \times \frac{100}{50}$ = 8000

Total female who applied for passports from C

= $8000 \times \frac{50}{100} \times \frac{50}{100} + (3 \times 800)$ = 4400

Total male who applied for passports from C

= $8000 - 4400 = 3600$

Required % = $\frac{4400}{3600} \times 100 = 122\frac{2}{9}$%

88. (e); Let total number of applicants in A be 100x.

ATQ,

$100x \times \frac{60}{100} \times \left(\frac{60}{100} - \frac{40}{100}\right) = 2400$

$12x = 2400$

$x = 200$

Hence, number of applicants who applied for new passport from A = $100 \times 200 \times \frac{40}{100}$ = 8000

89. (a); ATQ,

Total applicants from B = $3600 \times \frac{100}{40} \times \frac{100}{45}$

= 20000

Total applicants from E = 20000 + 5000 = 25000

Required number of applicants = $20000 \times \frac{55}{100}$ +

$25000 \times \frac{30}{100}$ = 18500

90. (c); Let total number of applicants from C & E be 100x & 100y respectively.

ATQ,

$100x + 100y = 30000$

$x + y = 300$ ....(i)

Now, $100x \times \frac{50}{100} \times \frac{50}{100} - 100y \times \frac{70}{100} \times \frac{60}{100} = 800$

$25x - 42y = 800$ ....(ii)

On solving (i) & (ii), we get:

$x = 200, \ y = 100$

Required average

= $\frac{1}{2} \times \left(\left(100 \times 200 \times \frac{50}{100}\right) + \left(100 \times 100 \times \frac{30}{100}\right)\right)$

= $\frac{1}{2} \times (10000 + 3000) = 6500$

91. (e); Let total number of applicants from A & C be 100x & 100y respectively.

ATQ,

Applicants who applied for new passports from A

$= 100x \times \frac{40}{100} = 40x$

Applicants who applied for new passports from C

$= 100y \times \frac{50}{100} = 50y$

Now, $\frac{40x}{50y} = \frac{2}{3} \Rightarrow \frac{x}{y} = \frac{5}{6} \Rightarrow y = \frac{6x}{5}$

Required % $= \frac{100 \times \frac{6x}{5} - 100x}{100x} \times 100$

$= \frac{120x - 100x}{100x} \times 100 = 20\%$

92. (e); Required probability $= \left(\frac{(^{48}C_1 \times {^4}C_1) + {^{48}}C_2}{^{52}C_2} \right)$

$= \frac{192 + 1128}{1326} = \frac{220}{221}$

93. (c); 2nd year CI

$= \left(50000 \left(1 + \frac{12}{100} \right)^2 - 50000 \right) - \left(50000 \times \frac{12}{100} \right)$

$= 12720 - 6000 = Rs.6720$

Now, 2nd year SI $= 6720 - 2220$ = Rs.4500

Now, R $= \frac{4500}{75000} \times 100 = 6\%$

94. (a); let speed of train Y be 's' kmph & length of train X & Y be a & b m respectively

ATQ, $\frac{a+b}{120} = (s - 120) \times \frac{5}{18}$ ....(i)

$\frac{a+b}{\frac{40}{3}} = (s + 120) \times \frac{5}{18}$ ....(ii)

On dividing (i) by (ii)

$\frac{1}{9} = \frac{s-120}{s+120}$

S = 150 kmph

95. (e); Let unit's digit and ten's digit of the original number be 'x' and 'y' respectively.

So, original number $= 10y + x$

ATQ,

$10x + y - (10y + x) = 27$

$\Rightarrow 9x - 9y = 27$

$x - y = 3$ ...(i)

And, $x^2 - y^2 = 33$

$(x - y)(x + y) = 33$ ...(ii)

On solving (i) & (ii), we get:

$(x + y) = 11$ ...(iii)

On solving (i) & (iii), we get:

$x = 7, \ y = 4$

So, original number = 47

Sol (96-100): Let distance between Delhi – Bangkok be 10x km.

So, Distance between Dhaka – Bangkok $= 10x \times \frac{80}{100} = 8x$ km

And, distance between Delhi – Dhaka $= 8x \times \frac{27}{32} = \frac{27x}{4} \ km$

ATQ,

$10x + 8x + \frac{27x}{4} = 19800$

$\Rightarrow x = 800$

Delhi – Dhaka fare:

Let fare of B be Rs.4a

So, fare of C $= 4a \times \frac{125}{100} = Rs.5a$

And, fare of A $= Rs. (4a - 2700)$

Now,

$\frac{4a-2700}{5a} = \frac{3}{5}$

$\Rightarrow a = 2700$

Delhi – Bangkok fare:

Total fare of A & B $= 20000 \times 2 = Rs.40000$

Fare of C $= 8000 + 20000 = Rs.28000$

Fare of B $= 26000 \times 2 - 28000 = Rs.24000$

Fare of A $= 40000 - 24000$

$= Rs.16000$

Dhaka – Bangkok fare:

Fare of B = Rs.16000

Fare of A $= 16000 \times \frac{6}{5} = Rs.19200$

Fare of C $= 16000 \times \frac{8}{5} = Rs.25600$

Routes	Distance (in km)	A's fare (in Rs.)	B's fare (in Rs.)	C's fare (in Rs.)
Delhi – Dhaka	5400	8100	10800	13500
Delhi – Bangkok	8000	16000	24000	28000
Dhaka – Bangkok	6400	19200	16000	25600

96. (b**);** Total fare if Veer uses A for his trip = 8100 + 19200

= Rs.27300

Total fare if Veer uses B for his trip = 10800 + 16000

= Rs.26800

Total fare if Veer uses C for his trip = 13500 + 25600

= Rs.39100

So, the cheapest option for Veer is flight operator B.

97. (d**);** ATQ,

Total fare paid by Deepak = 25600 + 28000

= Rs.53600

Required amount $= \frac{53600}{6400+8000} = $ Rs. 3.62/km

98. (d); ATQ,

Fares for (A, Delhi – Bangkok) = Rs.16000

Fares for (C, Delhi - Dhaka) = Rs.13500

Fares for (B, Dhaka - Bangkok) = Rs.16000

Fares for (A, Dhaka - Bangkok) = Rs.19200

Fares for (B, Delhi - Dhaka) = Rs.10800

So, for (A, Dhaka - Bangkok) fares will be maximum.

99. (b); ATQ,

Per km fare of A = $\frac{19200}{6400}$ = Rs.3/km

Per km fare of B = $\frac{16000}{6400}$ = Rs.2.5/km

Per km fare of C = $\frac{25600}{6400}$ = Rs.4/km

So, per km fare of B is lowest.

100. (e); Required average = $\frac{8100+10800+13500}{3}$ = Rs.10800

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101. (b); To validate the answer, refer to the first paragraph, which mentions, "*Music is assumed to be a fortuitous by-product of this evolutionary development, and is more fully processed in the brain's right hemisphere, which is more associated with the representation of emotions than the left hemisphere.*" Referring to the quoted text, we can infer that the statement given in option (b) is appropriate in context of the given question. Hence, option (b) is the most suitable answer choice.

102. (d); The answer can be validate from various statements given in paragraph four. Among the given statements, only the statement (d) cannot be inferred from the passage. Hence, option (d) is the most suitable answer choice.

103. (c); The entire passage is centered around inability of certain people to enjoy music inspite of having normal brain functioning. Here, the most suitable statement to justify the central idea of the passage would be "*While music may be the universal language, it doesn't speak to everyone*". Also, the statement (ii) is correct in context of the passage. Hence, option (c) is the appropriate answer to the given question.

104. (c); To validate the answer, refer to the second paragraph, which mentions, "*It has been theorised that aesthetic responses to music may derive from the similarity of musical tones to tonal characteristics of human speech associated with different emotional states. If so, it would be hypothesised that the pleasure one finds in music would be related to skills in and enjoyment of social intercourse. Conversely, a lack of musical appreciation would predict deficiencies in social engagement*". Referring to the quoted text, we can infer that the statement given in option (c) is correct in context of the given question.

105. (d); Among the given phrases, the most appropriate phrase to fit in the given blank will be "". Apart from this, no other phrase could make a grammatically correct and contextually meaningful statement. Hence, option (d) is the most suitable answer choice.

106. (a); Here, only in sentence (A) both the words fit in to form a contextually and grammatically correct statement. Hence, option (a) is the most suitable answer choice.

Equip: "supply with the necessary items for a particular purpose."

Arm: "each of the two upper limbs of the human body from the shoulder to the hand."

AND "a thing comparable to an arm in form or function, typically something that projects from a larger structure."

107. (d); Here, only in sentences (A) & (B), both the words fit in to form a contextually and grammatically correct statement. Hence, option (a) is the most suitable answer choice.

Study: a detailed investigation and analysis of a subject or situation.

Ponder: think about (something) carefully, especially before making a decision or reaching a conclusion

108. (e); Here, both the words fit in all the three statements to make the sentences grammatically and contextually correct. Hence, option (e) is the most suitable answer choice.

Anomaly: "something that deviates from what is standard, normal, or expected."

Departure: "a deviation from an accepted, prescribed, or usual course of action"/ "the action of leaving, especially to start a journey

109. (c); Here, only in sentences (A) & (B), both the words fit in to form a contextually and grammatically correct statement. Hence, option (a) is the most suitable answer choice.
Accolade: "an award or privilege granted as a special honour or as an acknowledgement of merit."/ "a touch on a person's shoulders with a sword at the bestowing of a knighthood"
Recognition: "identification of someone or something or person from previous encounters or knowledge"/ "acknowledgement of the existence, validity, or legality of something"/ "appreciation or acclaim for an achievement, service, or ability"

110. (e); Both the words fit in only in statement B to form a grammatically and contextually correct statement. Hence, option (e) is the most suitable answer choice.
Pinnacle: the most successful point; the culmination/ a high, pointed piece of rock
Height: the measurement of someone or something from head to foot or from base to top./

111. (d); Among the given words, "**bravery**" is synonym of valour and **cowardice** is antonym of valour. Hence, option (d) is the most suitable answer choice.

112. (e); Among the given words, "**restrain**" is synonym of impede and **expedite** is antonym of impede. Hence, option (e) is the most suitable answer choice.

113. (c); Among the given words, "**acknowledge**" is synonym and **disparage** is antonym of **appreciates**. Hence, option (c) is the most suitable answer choice.

114. (b); Among the given words, "**graceful**" is synonym and **gauche** is antonym of **elegant**. Hence, option (b) is the most suitable answer choice.

115. (d); The correct answer choice will be (d). Here, 'loathe' is synonym of 'abhor' whereas 'admire' is its antonym.
Abhor: regard with disgust and hatred.
Loathe: feel intense dislike or disgust for

116. (a); Here, the error lies in part (C) of the statement, where "dare call" will be replaced with "dares to call". Here, 'dare' has been used as main verb and will therefore qualify the singular noun, which is 'no one'. 'Dare' will then be followed by 'to+v1'. But when 'dare' and 'need' are used as modal auxiliary, then we do not add '-s' to make it singular. Then we direct use 'to' after them. Hence, option (a) is the most suitable answer choice.

117. (d); Here, "his" will be replaced with "him" because verbs like "heard, watch, behold, see, let, make, bid" will be followed by objective case pronouns and in case we use infinitive then it is used without "to" (bare infinitive). Hence, option (d) is the most suitable answer choice.

118. (d); Here, the error lies in the last part of the statement where "tomorrow" will be changed to "the next day" because in indirect narration, 'tomorrow' is changes to 'on the tomorrow' or 'the next day'. Hence, option (d) is the most suitable answer choice.

119. (e); The given statement is grammatically correct and does not require any changes. Hence, option (e) is the most suitable answer choice.

120. (b); Here, the error lies in part (D) of the statement where "would not" will be replaced by "had not" because in cases of situations denoting unfulfilled wishes/ desires of past, in conditional clause, we use 'if+subject+had+v3' or 'had+subject+v3'. Hence, option (b) is the most suitable answer choice.

121. (e); The answer for the given question can be traced fourth and fifth paragraph "*A major cause of the slowdown of sales in 2019-20 was the difficulty in the availability of finance due to problems in the financial sector. The decade saw the introduction and acceptance of shared platform operators like Uber and Ola…Diesel car sales had risen earlier in the decade, but are now in decline. Meeting Bharat VI norms has added considerably to cost. In addition, the Supreme Court ordered that diesel cars older than 10 years would not be allowed in the NCR".* Hence, option (e) is the correct answer choice.

122. (d); The answer can be verified from the 2ⁿᵈ paragraph. Refer to the lines "*Intense competition in the market saw all manufacturers launching or upgrading existing models in fairly short intervals. The industry became more like that of a developed country. Competition also led to better technology benefiting the consumer. The average fuel efficiency of cars increased from about 16 km per litre to 19.2 km per litre. This resulted not only in reducing fuel consumption but also lowered CO2 emissions.*" Hence, option (d) is the correct answer choice.

123. (c); The most appropriate phrase to complete the given blank is "partly explains the slowing of growth". The previous sentence of the blank mentions about the implementation of Bharat VI which is a measure for safety and emission standards. Further the sentence states that due Bharat VI there has been an increase in the cost of vehicles; thus, this should ultimately result in the decline of the sales growth. Hence, option (c) will be most viable choice to complete the given sentence.

124. (b); Statement (II) is incorrect as in the given passage it is stated that "The entry of global players into the Indian market and cars being of international standards led to exports increasing to 680,000 vehicles in 2018-19.' Statements (I) and (III) are true in the context. Hence, option (b) is the correct answer choice.

125. (b); The most suitable word that expresses the meaning of the highlighted word is "catalyst". Hence, option (b) is the correct answer choice.
Driver means a factor which causes a particular phenomenon to happen or develop.
Straphanger means any user of such public transportation.
Catalyst means a person or thing that precipitates an event.
prototype means a first or preliminary version of a device or vehicle from which other forms are developed.
Chauffer means a person employed to drive a private automobile or limousine for the owner.

126. (d); 'X' was although a valuable employee for the company yet his attitude towards company's initiative was negative and he wanted to develop similar feeling among his colleagues. Hence, 'pessimist' which means 'tending to see the worst aspect of things or believe that the worst will happen' best defines 'X's' attitude towards the initiative.
Empathetic: showing an ability to understand and share the feelings of another
Scientific: based on or characterized by the methods and principles of science
Passionate: having, showing, or caused by strong feelings or beliefs.
Discreet: intentionally unobtrusive

127. (e); Here, as per the given situation, all the given options define 'Y' as a person. Hence, option (e) is the most suitable answer choice.

128. (b); As per the given situations, both the goats were not willing to give way to each other and therefore has to face the consequences. From the situation, we can infer that the goats were stubborn. Hence, option (b) is the most suitable answer choice.
Intuitive: using or based on what one feels to be true even without conscious reasoning; instinctive
Stubborn: having or showing dogged determination not to change one's attitude or position on something
Persuasive: good at persuading someone to do or believe something through reasoning or the use of temptation
Epicurean: relating to or suitable for an epicure.

129. (d); Among the given options, "generous" which means "showing kindness towards others." defines the nature of the child who willingly visited the animal shelter for donation. Hence, option (d) is the most suitable answer choice.
Creative: having good imagination or original ideas
Courageous: not deterred by danger or pain; brave
Dramatic: (of an event or circumstance) sudden and striking

130. (b); Among the given options, "faithful" is the most suitable answer choice to define the nature of the dog which was loyal towards its owner. Hence, option (b) is the most suitable answer choice.
Honest: free of deceit; truthful and sincere.
Faithful: remaining loyal and steadfast
Cultured: characterized by refined taste and manners and good education
Notorious: famous or well known, typically for some bad quality or deed.

131. (d); Reading the second paragraph of the passage, we can conclude the answer to be (c). The lines have been mentioned below for reference:
"**But it should carry out, along with international investigators, a thorough probe into what led to the "accident", and punish whoever is responsible for the "human error.**"
"**If Iran is sincere in its apology, it should not only unearth what happened and punish the culprits but also take immediate steps to reduce tensions with the U.S.**"

132. (c); The given passage talks about data protection law implemented In California and hence the only option to satisfy it will be (c).

133. (b); Reading the last paragraph of the passage, we can deduce the answer to be (b). The lines have been mentioned below for reference:

"After initially rejecting western assertion that an Iranian missile brought down the plane, Tehran on Saturday said one of its soldiers fired the missile, mistaking the jet for an enemy aircraft "as it turned to a sensitive area."

134. (b); Among the given words, '**vengeance**' which means characterized by a desire for revenge is similar to '**retaliatory**'. Hence, option (b) is the most suitable answer choice.
Hostility: unfriendliness or opposition
Redemption: the action of saving or being saved from sin, error, or evil.
Brisk: active and energetic.

135. (c); Reading the last paragraph of the passage, we can conclude the answer to be (c). The lines have been mentioned below for reference:

"**Mr. Trump unilaterally pulled the U.S. out of the Iran nuclear deal, in May 2018, was worth the risk**."

Rest of the options given in the passage are untrue or do not make any contextual sense.

136. (b); The most suitable word to fill the blank (A) as well as the blanks of the given sentences is "proliferating" which means increase rapidly in number; multiply. All the other words are irrelevant. Hence, option (b) is the correct answer choice.

137. (a); To make the sentence grammatically and contextually correct, interchange the words positions at (1) and (2) i.e., estimated and launched. All the other words are correct. Hence, option (a) is the correct answer choice.

138. (e); All the parts of the italicized sentence are correct. Hence, option (e) is the most suitable answer choice.

139. (d); The given sentence consist a conjunction "while" which is used to indicate a contrast in the sentence. The latter part of the sentence "*while the remaining prefer to use the internet only for product research, communication, entertainment and other purposes*" indicates that the initial part of the sentence must mention a dichotomy. Thus, among the given options, option (d) becomes the most viable answer choice.

140. (a); The most suitable word to replace the highlighted incorrect word is "virtual". "virtual" means almost or nearly as described, but not completely or according to strict definition. All the other words are either grammatically incorrect or contextually meaningless.