

IBPS RRB PO Mains Previous Year Question Paper - 2023

Reasoning Ability

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

Eight persons - P, Q, R, S, T, U, V and W are sitting in a linear row facing north. They travelled to different number of cities.

W sits fourth to the left of the one who travelled to 12 cities where none of them sits at the end of the row. The number of persons sitting to the left of W is **one less** than the number of persons sitting to the right of the one who travelled to 10 cities. V sits immediate left of the one who travelled to 6 cities. The number of persons sitting between V and S is **two less** than the number of persons sitting between the one who travelled to 6 cities and W. Q sits immediate left of T. Q travelled five cities more than V. U sits third to the right of the one who travelled two cities more than P. P sits second to the left of R. The difference between the number of cities travelled by Q and the one who sits immediate left of R is the same as the difference between the number of cities travelled by the one who sits immediate right of U and the one who sits second to the right of V. The sum of the number of cities travelled by S and U is the same as the sum of the number of cities travelled by T and W. P travelled twice the number of cities travelled by the one who sits immediate left of W.

1. What is the sum of the number of cities travelled by S, U and the one who sits immediate left of S?

- A. 30 cities
- B. 32 cities
- C. 37 cities
- D. 39 cities
- E. 35 cities

2. Which of the following combination is true?

- I). Q-3
- II). T-17
- III). P-6
- IV). U-12
- A. Only (III) and (IV)
- B. Only (I) and (II)
- C. Only (II) and (III)
- D. Only (II)
- E. All (I), (II) and (III)

3. As many persons sit between Q and the one who sits immediate left of S as between R and _____

- A. T
- B. The one who travelled to 17 cities
- C. The one who travelled to 10 cities
- D. The one who travelled to 12 cities
- E. The one who sits immediate right of V

4. If one of the neighbours of V is P, then who among the following person is another neighbour of V?

- A. Q

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- B. The one who travelled to 3 cities
- C. R
- D. The one who travelled to 8 cities
- E. U

5. How many persons sit between the one who travelled to 3 cities and the one who sits immediate right of P?

- A. More than three
- B. Three
- C. Two
- D. None
- E. One

Directions (6-8): Below question consists of some statements followed by some conclusions. Study the following information carefully and decide which of the following conclusion logically follows.

6. Statements:

Only Rose are Yellow. Some Rose are Mango.
Only a few Mango are Pink. Few Pink are Orange. No Orange are Rose.

Conclusions:

- I). Some Mango can never be Orange.
- II). Some Pink are not Rose.
- III). Some Rose are not Orange.
- A. Only conclusion III follows
- B. Only conclusions I and II follow
- C. Only conclusion I follows
- D. All conclusions I, II, and III follow
- E. Only conclusion II follows

7. Statements:

Only a few Juices are Wine. Few Wine is Soda.
Only Soda is Water. No Sugar is Wine. Few Coke is Sugar.

Conclusions:

- I). Some Coke can never be Soda.
- II). Some Soda is not Sugar.
- III). No Juice is Sugar.
- A. Only conclusion III follows
- B. Only conclusions I and II follow
- C. Only conclusion II follows
- D. All conclusions I, II, and III follow
- E. Only conclusion I follows

8. Statements:

Only a few Padlocks are Pitchers. A few Pitchers are Rollers. Only a few Pliers are Rollers. No Roller is Stool

Conclusions

- I). All Pitchers can never be Stool
- II). Some Stools may be Pitchers
- III). All Padlocks are definitely not Roller
- A. Only conclusion I follows
- B. Only conclusions I and II follow
- C. Only conclusions I and III follow
- D. Only conclusion III follows
- E. All conclusions I, II and III follow

Directions (9-13): Study the following information carefully and answer the given questions

Eight persons-I, J, K, L, M, N, O and P are attending the exam on different dates either 7 or

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28 of four different months viz., - January, February, March and April of the same year(2023). They wrote the exam on different subjects- Economics, Philosophy, Maths, Sociology, Chemistry, Biology, History, and Physics. Only one person attends the exam on each date and only two persons attend the exam in each month.

J attends on an odd numbered date of the month having 31 days. Only two persons attend between the one who wrote History exam and J. As many persons attend the exam before the one who wrote History exam as after O. K attends three persons before the one who wrote Physics exam. K and O attend on the same date. M attends two persons after the one who wrote Physics exam. At least one person attends after M. I attends immediately before the one who wrote Biology exam. J neither wrote Biology nor Economics exams. The number of persons attending the exam before N is **one more** than the number of persons attending the exam after the one who wrote Chemistry exam. P

attends two persons after the one who attends immediately after the one who wrote Economics exam. The one who wrote Philosophy exam attends three persons after the one who attends immediately before the one who wrote Maths exam.

9. Which of the following month and date does P attend the exam?

A. March 7

B. February 28

C. March 28

D. April 28

E. January 7

10. How many persons attend the exam between the one who wrote Biology exam and the one who attends immediately after the one who wrote Chemistry exam?

A. More than five

B. Five

C. Two

D. Three

E. Four

11. Which of the following combination is true?

A. N-Economics-January 7

B. K-History-January 28

C. J-Sociology -March7

D. L-Chemistry-April 28

E. O-Physics -March 28

12. The number of persons attending before I is one more than the number of persons attending after ____

A. The one who wrote Philosophy exam

B. The one who wrote Chemistry exam

C. The one who attends immediately after P

D. I

E. N

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13. Which of the following statements is/are true as per the given arrangement?

- A. L attends three persons after the one who wrote Physics
- B. M attends the exam in an even numbered date
- C. Only two persons attend between I and O
- D. O wrote Maths exam
- E. All the statements are true

Directions (14-16): Study the following information carefully and answer the given questions.

"A @ B" means "A is not greater than B".

"A & B" means "A is neither greater nor equal to B".

"A % B" means "A is not smaller than B".

"A # B" means "A is neither smaller nor equal to B".

"A ^ B" means "A is neither greater nor smaller to B".

14. Statements:

B#R^S@M, Q^L%Z&S, H#T%R

Conclusions:

- I). B#Q
- II). Z&H
- III). Q^B
- A. Both conclusions I and II are true
- B. Either conclusion I or III is true
- C. Only conclusion II is true
- D. Both conclusions II and either I or III are true
- E. None is true

15. Statements:

Z#L^M&S, M@K^W, W#T%Q, S^G#U

Conclusions:

- I). W#U
- II). Q&L
- III). Z#U
- A. Both conclusions I and II are true
- B. Both conclusions I and III are true
- C. Only conclusion II is true
- D. Only conclusion III is true
- E. None is true

16. Statement:

H#Q^S#T@W^M#Z%Y

Conclusions:

- I). H#M
- II). S&T
- III). Q%T
- A. Both conclusions I and II are true
- B. Either conclusion II or III is true
- C. Only conclusion II is true
- D. Only conclusion III is true
- E. None is true

Directions (17-21): Study the following information carefully and answer the given questions

Eight persons- L, M, N, O, P, Q, R and S are sitting around a square table in such a way that four of them sit at the corners and facing the centre while four of them sit in the middle of the sides and facing outside (opposite to the centre).

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They like different chocolates-Milky Way, Snickers, Nestle, Toblerone, Cadbury, Twix, Amul, and Parle.

R sits third to the left of the one who likes Twix. N sits immediate left of the one who sits opposite to R, who does not face the centre. One person sits between N and P. L sits second to the left of the one who sits immediate left of the one who likes Snickers. S sits opposite to the one who sits second to the left of the one who likes Toblerone. Two persons sit between P and the one who likes Toblerone. L and S face the same direction. O sits second to the left of the one who sits immediate right of M. N and M are not immediate neighbours. As many persons sit between Q and N as between the one who sits immediate left of S and the one who likes Parle. The one who likes the Milky Way sits immediate left of the one who sits second to the right of the one who likes Amul, who does not sit adjacent to L. The one who likes Nestle sits third to the right of Q. The number of persons sitting between the one who uses Nestle and the one who likes Toblerone is **one more** than the number of persons sitting between the one who likes Twix and the one who likes Cadbury when counted from the right of the one who likes Nestle.

17. Who among the following person sits opposite to the one who likes Nestle?

- A. M
- B. R
- C. The one who likes Cadbury

- D. The one who sits second to the right of N
- E. Q

18. Who among the following persons sit between L and Q when counted from the right of Q?

- I). R
- II). The one who likes Toblerone
- III). The one who likes Snickers
- IV). M
- A. Only (III) and (IV)
- B. Only (I)
- C. Only (II) and (III)
- D. Only (II)
- E. Only (I), (II) and (III)

19. Which of the following combination is true?

- A. S-Twix
- B. R-Toblerone
- C. M-Parle
- D. L-Snickers
- E. P-Nestle

20. What is the position of L with respect to the one who likes Amul?

- A. Immediate left
- B. Third to the right
- C. Second to the right
- D. Second to the left
- E. Third to the left

21. As many persons sit between the one who likes Snickers and the one who likes Cadbury

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when counted from the left of the one who likes Snickers as between P and ____.

- A. M
- B. R
- C. The one who sits immediate right of S
- D. Q
- E. The one who likes Toblerone

Directions (22-24): Study the following information carefully and answer the given questions.

Naveen and Nisha plans to meet at point H, for that both of them walk from different points. Nisha starts at point F and walks towards west for 4m and takes a right turn at point G. Then, she walks for 12m to reach point H and waits for Naveen to arrive. Later, Naveen starts at point A and walks towards north for 4m to reach point B, where he takes a right turn and walks 7m to reach point C. At point C, he takes a left turn for only 45 degrees and walks for 10m to reach point H, where he meets Nisha and then turns to his left and walks for 11m in west direction to reach point D and stops. Point G is exactly in the east of point A.

22. What is the direction of the starting point of Nisha with respect to the final point of Naveen?

- A. Northeast
- B. Southeast
- C. Northwest
- D. Southwest
- E. Cannot be determined

23. If Nisha waits at the point which is 4m to the north of point G, then how long does Naveen need to walk(total distance) to meet Nisha from point A?

- A. 18m
- B. 13m
- C. 19m
- D. 17m
- E. Cannot be determined

24. Four of the following five pairs of points are alike in a certain way based on the directions in the given arrangement and thus form a group. Which one of the following does not belong to the group?

- A. DG
- B. BF
- C. DF
- D. BG
- E. AH

Directions (25-29): Study the following information carefully and answer the given questions

Eight persons- A, B, C, D, E, F, G and H like different activities- Cycling, Climbing, Singing, Aerobics, Snowboarding, Running, Gardening, and Acting and they are living in three different cities- Barcelona, Florence and Cannes. At least two persons but not more than three persons are living in the same city.

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Note: If it is said that 'x' lives with the one who likes singing, then it means both 'x' and the one who likes singing live in the same city but 'x' does not like singing.

E likes Climbing and lives only with A. G lives in Florence. C likes Gardening and neither lives with G nor A. H lives in Barcelona. The one who lives in Cannes likes either Cycling or Acting. The one who likes Singing lives in Barcelona. Neither B nor D lives in the same city of H. The one who lives in Florence likes Snowboarding. Neither B nor D likes Snowboarding. The one who likes Running does not live with the one who likes Cycling. The one who likes Aerobics lives with the one who likes Singing. F does not like Aerobics. D neither likes Cycling nor Running.

25. Who among the following pair of persons are living in Cannes?

- A. A, E
- B. B, D
- C. G, F
- D. F, B
- E. D, G

26. Which of the following person likes Aerobics?

- A. A
- B. B
- C. H
- D. D
- E. G

27. Which of the following statements is/are false as per the given arrangement?

- I). B likes Acting
 - II). G lives in Cannes
 - III). H likes Snowboarding and lives in Barcelona
- A. Only I and II
 - B. Only III
 - C. Only I and III
 - D. Only I
 - E. All I, II, and III

28. Which of the following activity is liked by B?

- A. Running
- B. Gardening
- C. Cycling
- D. Snowboarding
- E. Acting

29. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- A. Cycling-E
- B. D-Climbing
- C. E-Singing
- D. F-Acting
- E. H-Running

Directions (30-31): Study the following information carefully and answer the given questions.

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Ten persons are there in the family with three generations and only two couples. The number of males and females are equal. Both the brothers of S are married and have children but only one sister-in-law is alive. L is the only daughter of R, who has two grandchildren. O is the father of S, who is the aunt of K. W, the son of O, is the father of F, who doesn't have any siblings. D has two children of different gender, where N is one among them and the gender of both D and N are the same. L is the daughter-in-law of G but not the mother of F, who is of the opposite gender of K.

30. Who among the following is the mother of K?

- A. F
- B. L
- C. G
- D. N
- E. R

31. How K is related to R?

- A. Sister
- B. Mother
- C. Grandson
- D. Daughter
- E. Grand daughter

Directions (32-35): Study the following information carefully and answer the given questions

A machine rearranges a given input line having both words and numbers in a particular set of

rules step by step. The following is an illustration of input and its rearrangement.

Input: 48 52 Down 65 Fast Your Give 70 Home 81 Hunt 95

Step I: 70 Home 48 52 Down 65 Fast Your Give 81 Hunt 95

Step II: 70 Home 81 Hunt 48 52 Down 65 Fast Your Give 95

Step III: 70 Home 81 Hunt 52 Fast 48 Down 65 Your Give 95

Step IV: 70 Home 81 Hunt 52 Fast 65 Your 48 Down Give 95

Step V: 70 Home 81 Hunt 52 Fast 65 Your 48 Give Down 95

Step VI: 70 Home 81 Hunt 52 Fast 65 Your 48 Give 95 Down

Step VI is the final step of the given input.

As per the rules followed in the given steps, find an appropriate step for the given Input.

Input: 82 29 firm 50 home gate 25 gray 33 laid meet 12

32. How many numbers are there between "Home" and "Laid" in step III?

- A. Four
- B. Two
- C. Three
- D. One
- E. None

33. What is the sum of the numbers which are adjacent to the element which is fourth from the left end in step II?

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- A. 45
- B. 94
- C. 83
- D. 58
- E. 107

34. What is the position of "firm" in step IV?

- A. Second from the left end
- B. Third from the right end
- C. Second from the right end
- D. Fourth from the right end
- E. None of the above

35. How many steps are needed to get an output?

- A. IV
- B. VI
- C. III
- D. V
- E. VII

Directions (36): Read the following carefully and answer the questions that follow

36. Statement:

The recently announced vehicle scrappage scheme is likely to usher in significant change in the Indian automobile industry and is expected to generate demand for new vehicles, especially commercial vehicles.

Conclusions:

I). The scrappage policy could change India's automobile sector

II). Scrapyards are likely to be established in the four zones

- A. None can be concluded
- B. Only I can be concluded
- C. Either I or II can be concluded
- D. Both I and II can be concluded
- E. Only II can be concluded

Directions (37-38): In the questions given below, a Statement has been given in each question followed by two Courses of Actions. You have to identify the correct option that will help solve the problem mentioned in the statement

37. Statement:

The challenges that the mountain trail and campsite face are not an exception; other popular trails too grapple with similar waste issues.

Course of Action:

- I). Overnight Camping on the trails should be banned for travelers as well as locals
- II). Strict fines should be imposed on the foreigners visiting the place

- A. Only I follows
- B. None follows
- C. Either I or II follows
- D. Only II follows
- E. Both follow

38. Statement:

In many parts of the world the majority of bank customers regularly use Automatic Teller Machines (ATMs) and today's western youth

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have not known a world without them. For them, the prevailing Perception of a cash machine is that of a tool providing a familiar functionality of basic financial information and dispensing cash.

Inference:

- I). The plastic card is replacing cheque and personal attendance of the customer
- II). It has taken approximately 30 years to establish ATMs as ubiquitous examples of public walkup and-use devices

- A. if only inference I is implicit
- B. if only inference II is implicit
- C. if either I or II is implicit
- D. if neither I nor II is implicit
- E. if both I and II are implicit

39. Statement:

Indian carriers have announced a fresh slew of discounted ticket fares to bolster demand in the lean travel season.

Assumptions:

- I). Indians tend to book flights when they find good deals and huge discounts
 - II). Discounted tickets will urge the people to plan their travels
- A. None can be assumed
 - B. Only I can be assumed

- C. Either I or II can be assumed
- D. Both I and II can be assumed
- E. Only II can be assumed

Directions (40): In the question below is given a statement followed by two inferences numbered I and II. An inference is something that can be deduced or found out on the basis of the given facts. You have to consider the statement and the following inferences and decide which of them is implicit from the statement.

40. Statement:

The heads of state of the tiger range countries pledged to achieve the "Tx2" objective which plans to double the number of wild tigers by 2022. In 2010, their population was estimated at only 3,200.

Inferences:

- I). This year has been very positive for tigers.
 - II). More than 95% of the wild tiger population has been wiped out over the last century
- A. if only inference I is implicit.
 - B. if only inference II is implicit
 - C. if either I or II is implicit
 - D. if neither I nor II is implicit
 - E. if both I and II are implicit

Quantitative Aptitude

Directions (41-44): Study the given information carefully and answer the given questions.

Three shops namely A, B, and C sold a certain number of tables and chairs in March. The cost price of each table and chair is different in each of

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these three shops. Total number of tables and chairs sold by A, B, and C together is 900.

One set of Furniture sold = One Table sold + One Chair sold

Shop A – The number of tables sold is 33.33% less than the number of chairs sold. The Cost price of each table is Rs.240 and the cost price of each chair is Rs.200.

Shop B – The number of tables sold by Shop B is 10 more than that of A. Number of chairs sold is 80. The cost price of each table is Rs.260 and the cost price of each chair is Rs. 210.

Shop C – The number of tables sold is 180. The number of tables sold by Shop B is $16\frac{2}{3}\%$ less than that of Shop C. The total number of tables and chairs sold by Shop C is 320. The cost price of each table is 50% more than that of Shop A. The cost price of each chair is 20% more than that of B.

41. If shop A offers a 25% discount on each furniture set and the rest are sold on cost price. Find the revenue generated by selling all the tables and chairs in shop A.

- A. Rs.62400
- B. Rs.64200
- C. Rs.60200
- D. Rs.58600
- E. None of these

42. If 30% of the table and 45% of the chairs sold in Shop B was broken. Find the sum of the

number of broken tables and chairs sold by shop B.

- A. 81
- B. 67
- C. 87
- D. 74
- E. None of these

43. The number of tables sold by Shop D is 25% more than that of Shop A and the number of chairs sold by Shop D is 150% more than that of Shop B.

Find the total number of tables and chairs sold by Shop D.

- A. 415
- B. 335
- C. 365
- D. 375
- E. None of these

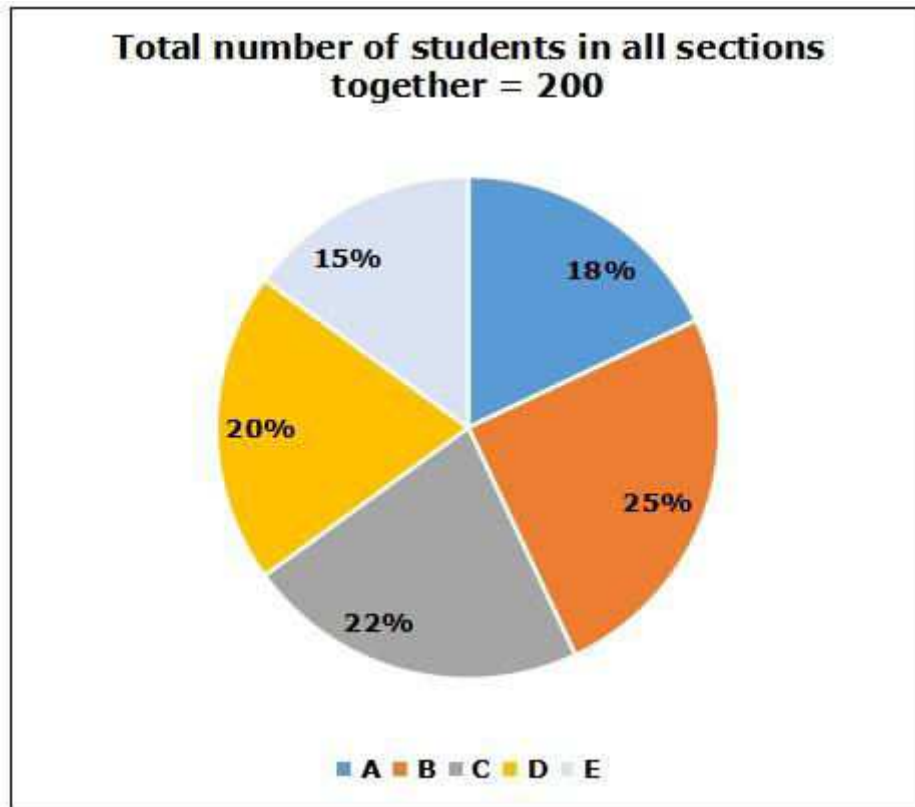
44. If shop A sold 60% of the chairs at 20% profit and the rest chairs at 25% loss. Find the profit or loss percentage obtained by Shop A by selling all the chairs.

- A. 8% profit
- B. 2% profit
- C. 5% loss
- D. 4% loss
- E. None of these

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Directions (45-49): Study the given information carefully and answer the given questions.

The given pie chart shows the percentage distribution of the total number of students in five different sections namely A, B, C, D and E of class 10 in a school.



The given table chart shows the percentage of the number of boys out of the total number of students in five different sections namely A, B, C, D and E of class 10 in a school. Total number of boys in all sections together is 80.

Section	% of boys
A	10%
B	20%
C	30%
D	25%
E	15%

45. 75% of students from section C have participated in a dance competition. 60% of girls from section C participated in the dance competition. Find the percentage of boys from

section C who participated in the dance competition.

A. 56.5%

B. 87.5%

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- C. 72.5%
D. 62.5%
E. None of these

46. The number of girls in section F is 12 more than that of section A and the number of boys in section F is 25% more than that of section B. Find the total number of students in section F.

- A. 80
B. 75
C. 55
D. 60
E. None of these

47. Find the correct statement.

- i). The number of girls in section E is 75% of the number of boys in section C.
ii). The number of girls in section B is 50% more than the number of boys in section C.
iii). The average number of boys in sections B and C is equal to the number of girls in section D.

- A. Only i and ii are correct.
B. Only ii and iii are correct.
C. Only i and iii are correct.
D. All are correct
E. None of these

48. The sum of the number of boys in sections B and C is what percentage of the sum of the number of girls in sections A, B, and E?

- A. 50%
B. 60%

- C. 75%
D. 80%
E. None of these

49. Find the ratio of the average number of boys in sections A, B, and E to the average number of girls in sections A, C, and E together.

- A. 8: 11
B. 7 : 8
C. 6 : 11
D. 7 : 10
E. None of these

Directions (50-54): Study the given information carefully and answer the given questions.

The given table chart shows the total number of cars manufactured by four different showrooms namely A, B, C and D and also given the number of cars sold in these four showrooms and also given the number of cars unsold in these four showrooms.

Showroom	Total cars manufactured	Number of cars sold	Number of cars unsold
A	P	110	70
B	224	$x + 20$	120
C	$x + 176$	$y + 32$	160
D	$z + 15$	52	y

Note: The number of cars manufactured by showroom A is 50% more than the number of cars manufactured by showroom D.

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50. Find the average number of cars unsold by Showroom B, C, and D.

i). $1.5x - 10$

ii). $2y - 20$

iii). $0.5P + 42$

A. Only i and iii are correct.

B. Only i and ii are correct.

C. Only ii and iii are correct.

D. All are correct.

E. None of these

51. 60% of cars manufactured by showroom A are petrol cars. The ratio of the number of petrol to diesel cars sold by showroom A is 6 : 5. Find the number of diesel cars unsold in showroom A.

A. 28

B. 24

C. 18

D. 22

E. None of these

52. If the number of cars unsold by Showroom C is transferred to a third party for selling and the third party can sell only $\frac{2}{5}$ th of the cars, then find the number of cars still unsold by Showroom C.

A. 96

B. 84

C. 104

D. 72

E. None of these

53. Showroom S manufactured $3x$ cars out of which $2y$ cars are unsold, Find the average number of cars sold by Showroom S and B.

A. 90

B. 125

C. 110

D. 105

E. None of these

54. If the ratio of the number of cars sold by Showroom A to G is 11 : 14, and 40% of the manufactured cars by Showroom G were sold, then find the sum of the number of cars unsold by Showroom G and A together.

A. 250

B. 320

C. 230

D. 280

E. None of these

Directions (55-59): Find the missing number in the given series.

55. 6, ?, 30, 62, 126, 254

A. 14

B. 12

C. 18

D. 15

E. None of these

56. 2, ?, 286, 2002, 10010, 30030

A. 21

B. 28

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- C. 26
D. 23
E. None of these

57. 110, 112, 117, 127, ?, 170

- A. 152
B. 144
C. 136
D. 140
E. None of these

58. 7, 21, 44, 94, 225, ?

- A. 586
B. 609
C. 546
D. 599
E. None of these

59. 2, 4, 11, 39, 102, ?

- A. 196
B. 228
C. 214
D. 226
E. None of these

60. If L.C.M of a and b ($a < b$) = 88, H.C.F = 1

$$x^2 - ax - 105 = 0$$

$$y^2 - by - 6y + 72 = 0$$

Find the correct relation between x and y.

- A. $x > y$
B. $x < y$
C. $x \geq y$

$$D. x \leq y$$

E. $x = y$ or the relation cannot be established.

61. If $a = 3b$, $\sqrt{a^2 + b^2} = 4\sqrt{10}$

$$x^2 - (a + b)x + 39 = 0$$

$$y^2 - (1.5a - 0.25b)y + 72 = 0$$

Find the correct relation between x and y.

- A. $x > y$
B. $x < y$
C. $x \geq y$
D. $x \leq y$

E. $x = y$ or the relation cannot be established

62. Find the correct relation between x and y.

$$x^3 + 2x^2 - 63x = 0$$

$$y^3 + 4y^2 - 77y = 0$$

- A. $x > y$
B. $x < y$
C. $x \geq y$
D. $x \leq y$

E. $x = y$ or the relation cannot be established

63. A and B invested Rs. $(x - 1200)$ and Rs. $(x + 1800)$ in a business. If at the end of the year they got a total profit of Rs. y and B got $8y/11$ as his share, then find the value of x.

- A. 4500
B. 3000
C. 2500
D. 3500
E. None of these

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64. A person spends $x\%$ and $(x + 10)\%$ of his income on rent and food respectively. He spends 36% of the remaining on other expenses. Now he is left with 32% of his income. Find the value of x .

- A. 20
- B. 24
- C. 15
- D. 10
- E. None of these

65. Set A contains 5 consecutive even number such that the average of set is 18, set B contains 4 consecutive odd number such that ratio of smallest to largest number is 7: 9. Set C contains 6 consecutive integers such that 2nd smallest number of the set is the sum of smallest number of sets A and B, then find the 2nd largest number of set C.

- A. 38
- B. 34
- C. 42
- D. 40
- E. 36

66. Cost price of five items K, L, M, N, and O is ₹ 620 each. If items K, L, M, N, and O are sold at ' x ', ' $x + 25$ ', ' $x + 50$ ', ' $x + 75$ ', and ' $x + 100$ ' respectively and after selling all the items 25% profit is earned. Find the approximate profit percent earned after selling item O alone.

- A. 28%
- B. 33%

- C. 30%
- D. 45%
- E. 42%

67. Time taken by a boat to cover 36 km downstream is 20% less than the time taken by same boat to cover 15 upstream. If difference between downstream and upstream speed of boat is 6 km, then find the distance travelled by boat in 4 hours 10 minutes in still water.

- A. 40 km
- B. 35 km
- C. 15 km
- D. 25 km
- E. 30 km

68. Ratio of ages of A and B 12 years before was 8: 9 while the ratio of ages of C and D after 8 years will be 25: 29. If B is 12 years younger than C and sum of ages of B and D is 80 years, then find the present age of D.

- A. 45 years
- B. 40 years
- C. 50 years
- D. 55 years
- E. 35 years

69. Ratio of efficiency of P and R is 3:2, they can complete the work in 24 days when they work in alternate manner. If Q and S together start the work and after four days, remaining work complete by S in $T/2$ days. When P and R start

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the work together, they can complete it in T days.

Find the time taken by Q alone to complete the work, if Q is 25% more efficient than S?

- A. 10 days
- B. 12 days
- C. 16 days
- D. 8 days
- E. Can't be determined

70. 240 L of mixture A contains milk and water in the ratio of 8: 7. 30 L of mixture is taken out and replaced with same quantity of water and again 60 L of mixture is taken out and replaced with same quantity of water. 260 L of mixture B contains milk and water in the ratio of 8: 5. If all the quantity mixture A and B are mixed, then find the difference between the quantity of milk and water in the resultant mixture.

- A. 8 L
- B. 10 L
- C. 9 L
- D. 16 L
- E. 12 L

71. A sum of ' $x + 500$ ' is invested for 5 years at 10% simple rate of interest and the amount received is invested for 2 years at 10% annual rate of compound interest. If total compound interest received is ₹ 3780, then find the value of ' x '.

- A. ₹ 11500
- B. ₹ 12500
- C. ₹ 15000

D. ₹ 17500

E. ₹ 7500

72. Ratio of total number of students in classes A to B is 9: 11 and the ratio becomes 14: 11 when 10 more students join class A.

Find that which of following statement is correct.

Statement I: Difference between initial number of students in both the classes is 5.

Statement II: If ratio of boys to girls in class B is 7: 4, then number of girls in class B is 10.

- A. Only statement I
- B. Only statement II
- C. Both statements I and II
- D. Neither statement I nor II
- E. Either statement I or II

73. In each of the following questions, two statements have been given. Analyze the given statements and answer whether the data given in the statements are sufficient to answer the question or not.

A mixture contains milk and water in the ratio of 16: 9, then find the total quantity of water in the mixture.

Statement I: Difference between quantity of milk and water in the mixture becomes 8 L when water of same quantity as already there in the mixture is also added in the mixture.

Statement II: Difference between quantity of milk and water in the mixture becomes 3 L when water

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of some quantity which is equal to the 25% of total mixture also added in the mixture.

- A. Only statement I alone is sufficient.
- B. Only statement II alone is sufficient.
- C. Both statements I and II together are sufficient
- D. Both statements I and II together are not sufficient
- E. Either statement I alone or statement II alone is sufficient.

74. Four persons P, Q, R and S entered in to partnership together, initial investment of P is 25% less than that of Q, while initial investment of R is twice as that of S. P and S left after eight months from start of business Find the total profit earned by Q and S together at the end of one-year, total profit is Rs. 3300.

Statement I. Profit share of R is six times as that of P.

Statement II. Profit share of R is Rs. 1200 more than that of Q.

- A. Statement I alone is sufficient to answer the question.
- B. Statement II alone is sufficient to answer the question.
- C. Either statement I or II is sufficient to answer the question.
- D. Both statements together are necessary to answer the question.
- E. None of these

75. Curved surface area of cone is 1755 cm^2 which is 1080 cm^2 more than its base area.

Height of cone is $(2H - 4) \text{ cm}$ and its radius is $R \text{ cm}$. Find the volume of cylinder has height $H \text{ cm}$ and radius is $(R - 3) \text{ cm}$. Use $\pi = 3$.

- A. 8640 cm^3
- B. 8460 cm^3
- C. 15360 cm^3
- D. 15680 cm^3
- E. None of these

76. A bag contains total (Black + white) $[2K + 3]$ balls out of which K are black. On picking two balls randomly from the bag, the probability of getting both white balls is $12/35$. Find the value of K .

- A. 2
- B. 6
- C. 5
- D. 7
- E. None of these

Directions (77-78): Read the following information carefully and answer the questions based on it.

A). $P^2 - 25P + 144 = 0$

B). $6Q^2 - Q - 40 = 0$

C). $2R^2 + 3R - 135 = 0$

I). $|K|$ is a perfect square, where K is one of the roots of same equation.

II). Difference of root is not less than 7.

III). HCF of $|Z|$ and $|Y|$ is not more than 1, where Z and Y are the roots of same equation.

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77. Find which of the following match is/are possible.

M). A – I, B – III, C – II

N). A – III, B – III, C – I

L). A – II, B – I, C – III

A. M only

B. M and L only

C. N and L only

D. M and N only

E. None of these

78. An equation is given below:

$H^2 + 43H - (15a + 60b) = 0$, where one root of equation is sum of negative root of B and positive root of C.

Find the maximum value of $(a + b)$, where a and b both are positive integers?

A. 17

B. 16

C. 13

D. 10

E. None of these

79. There is total of 120 students attempted a mock test. Number of girls those fail in mock is 20 more than that of boys, while number of girls those passes in mock is 12.5% less than those girls those failed the mock. If number of boys those passed the exam is 25, then find total number of girls those attempted mock test.

A. 45

B. 80

C. 75

D. 60

E. None of these

80. A boat takes total 12 hours to cover 180 km downstream and 120 km upstream. If it takes 36 min more to travel 60 km upstream than to travel 72 km downstream, then find the upstream distance travelled by boat in 4 hours.

A. 120 km

B. 80 km

C. 100 km

D. 60 km

E. 160 km

English Language

Directions (81-87): Read the following passage carefully and answer the questions that follow.

India is on its way to improve its industrial and economic health through structural reforms. The country has decided to phase out fossil-based energy generation and adopt green energy. This has been instrumental in laying a path to

transition towards sustainable energy. The growing need of energy perfectly aligns with the country's green energy transition initiatives, to satisfy future energy demands while reducing carbon footprints and burden on the country's foreign currency reserves. India's per capita energy consumption currently stands close to

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one-third of the world average. India is running renewable energy initiatives in a big way and has emerged as the second most attractive market for renewable energy equipment in the world. With the headquarters of International Solar Alliance, India is all set to become a global leader in solar energy.

Solar and wind were once considered costly source of power, but are now much cheaper than the conventional form of energy. India has already achieved 23 GW of solar installations with another 40 GW of solar power being at different stages of bidding and installation. The transition of the energy landscape in India is **inevitable** with the share of renewable energy going up rapidly. India set ambitious targets for itself to achieve 100 GW of solar power by 2022 and is set to prove that with honest efforts and true intent, no target is difficult to achieve. In recent years, growth of solar energy in emerging markets had been phenomenal. India has already overtaken the US and has become the second largest solar power market in the world (in terms of solar power installations). The country currently stands with ~25 GW of grid-connected solar power capacity as compared to 9 GW in 2015. Large scale solar installations in India account for 87 percent solar capacity while rooftop sector is all set to pick up. Last year, solar accounted for nearly 53 percent of new energy capacity additions in the country. In addition to India, most

of the developing countries including southeastern Asian countries are aggressively promoting renewable energy. The growth trajectory is expected to rise exponentially in the years to come. For a developing country like India, where electricity for every home was once considered a dream is now close to reality. The government initiative of 'power for all' is changing the socio-economic structure of the country. The sector also has immense potential to create new jobs; 1 GW of Solar manufacturing facility generates approximately 4000 direct and indirect jobs. In addition solar deployment, operation and maintenance creates additional recurring jobs in the sector. India's solar story is largely built over imported products. Renewable energy cannot completely replace fossil based energy generation because of obvious reasons like sun's energy not being available 24 hours a day, solar generation being highly unpredictable and technological innovations yet to develop an efficient storage solution. Though tech advancements are underway for storage, which has the potential to revolutionise this sector globally, till then dependence on fossils can be reduced by gradually increasing the share of renewables. China has already identified energy storage opportunity and is marching ahead to establish large manufacturing clusters to offer storage solutions. Solar power can replace fossil based generation only if efficient and cost-

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effective mass scale storage solutions are developed.

81. As per the passage, why would it be impossible to rely completely on renewable energy?

- 1). Renewable energy sources such as the sun are only available during the day and is highly dependent on unpredictable weather phenomena.
- 2). Developing countries are unwilling to recognise and tap into the potential offered by renewable energy.
- 3). We still lack a viable storage solution for renewable energy.

- A. Only 1
B. Only 1 and 2
C. Only 3
D. Only 1 and 3
E. Only 2 and 3

82. As per the passage, the author believes that solar energy presents a huge opportunity to India for which of the following reasons?

- 1). The solar energy sector has the potential to create a great number of jobs.
- 2). India is a developing country and solar energy might go a long way in providing electricity to its homes.
- 3). Most developing countries are making the shift from non-renewable energy to renewable energy, and India should do the same.

- A. Only 1

- B. Only 1 and 2

- C. Only 2

- D. Only 1 and 3

- E. All 1, 2 and 3

83. With which of the following statements does the author most likely to agree?

- A. Renewable energy can completely replace fossil fuels.
B. Advancements in the storage technology may revolutionise the renewable energy sector globally.
C. Solar power has the maximum potential in the renewable energy sector.
D. It would be difficult for India to compete with China in the renewable energy sector.
E. None of the above

84. Which of the following is NOT true as per the information given in the passage?

- 1). Solar and wind energy are more expensive than conventional energy.
- 2). India's per capita energy consumption is almost a third of the world's average.
- 3). The headquarters of the International Solar Alliance is in India.

- A. Only 3
B. Only 1 and 2
C. Only 1
D. Only 1 and 3
E. Only 2 and 3

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85. Which of the following provides the most suitable title for the passage?

- A. The scope of solar power in India
- B. The race towards solar power - India versus China
- C. Should India rely completely on solar power?
- D. The challenges posed by solar and wind power
- E. Developing countries as producers of solar power

86. Choose the word which is most nearly the same in meaning as the word **TRANSITION** given in bold as used in the passage.

- A. deploy
- B. shift
- C. discreet
- D. plea
- E. safeguard

87. Choose the word which is most opposite in meaning as the word **INEVITABLE** given in bold as used in the passage.

- A. reckless
- B. avoidable
- C. prudent
- D. illustrate
- E. unique

Directions (88-94): A passage has been given below. Read it carefully and answer the questions

given below the passage. Some of the words have been highlighted in the passage that will help you locate them to find the appropriate answer according to the questions asked.

India has been gripped by a wheat shock, soon after announcing that it can plug some of the gap in supplies in the world market caused by the exit of Ukraine and Russia. India's wheat crop, according to a report in this newspaper, could be 10-20 million tonnes (mt) below this year's initial estimate of 111 mt — owing to the early onset of a harsh summer. But the bigger cause for concern is the disproportionate drop in procurement this Rabi marketing season. At the latest count, it is about 16 mt, 44 per cent down from the same period last year, with wheat procurement about to come to an end later this month. About 43 mt of wheat was procured in the Rabi marketing season for 2021-22.

The current dip, even if one assumes a slight pick-up in the remaining days if the government relaxes qualifying conditions, has repercussions for food distribution under National Food Security Act and the PM Garib Kalyan Yojana. Wheat stocks as on April 1 amounted to 19 mt, whereas a requirement of about 30 million tonnes of wheat was estimated for these two schemes — 21 million tonnes for NFSA and another 10 million tonnes for PMGKAY. Buffer and strategic reserves for wheat would account for another 7.5 mt. Thus, as against the total wheat requirement

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of 40 million tonnes, the post-procurement stocks could be in the region of 35 million tonnes this year. It is just as well that the Centre on Tuesday announced additional distribution of rice under PMGKY to the extent of the 5 mt wheat shortfall. Rice supplies under PMGKAY may increase to 18 million tonnes. This is a timely move.

This steep shortfall is unlikely to ___ (A) ___; it is a fallout of the extraordinary circumstances that have derailed wheat procurement this season. Since procurement generally works out to a third or more of wheat output, a drop of about six million tonnes owing to lower output would have been no cause for surprise. But the global wheat shortage triggered by the Russia-Ukraine war has changed everything. With India eyeing exports, farmers are holding back stocks in the expectation of a much higher return than the MSP of Rs 2,015 per quintal. Indeed, current prices are ruling at Rs 200 or more per quintal over MSP, the rate at which private players are buying stocks. There can be no **grudging** the extra returns being made by the farmers. Nor can one take a moralistic view of traders who are merely responding to market forces. The government agencies have been slow to respond to the situation.

The Centre should desist from imposing export controls or stock limits, as that would dent the confidence of farmers and intermediaries. It would also go against its **espousal** of the scrapped farm

laws, which were about opening up grain markets and relaxing stock limits. That said, premature policy signals to boost exports of staples need not be sent out. Bountiful monsoons in recent years have ensured that rice stocks (excluding unmilled paddy) are about 32 mt now, about two-and-a-half times the buffer norm for April. There is scope to raise the rice component in PDS this year. The buffer norm of 21 million tonnes for wheat and rice on April 1, should be re-examined in view of rising welfare requirements.

88. What does the initial line of the passage imply?

India has been gripped by a wheat shock, soon after announcing that it can plug some of the gap in supplies in the world market caused by the exit of Ukraine and Russia.

- A. India promised for exporting wheat and soon after that, the nation has received excessive demand for delivering wheat stocks.
- B. India has announced to provide wheat in the world market as supplies by Ukraine and Russia have been stopped and due to that, India is facing the angst of the citizens of the country.
- C. India announced to provide wheat in the international market and levied high taxes resulting in criticism by other countries and wheat delivery has stooped in between due to this.
- D. Soon after India announced that it will provide wheat supplies in the global market due to the shortage caused by the war between Ukraine and

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Russia; India has been affected by wheat shortage.

E. None of the above

89. Which of the following statements is/are TRUE, according to the passage?

I). The Centre has announced additional distribution of rice under PMGKY to the extent of the 5 mt wheat shortfall.

II). A requirement of about 30 million tonnes of wheat was estimated for the two schemes- NFSA & PMGKAY.

III). The buffer norm of 21 million tonnes for wheat and rice on April 1, should be re-examined in view of lowering welfare requirements.

- A. only I
- B. only II
- C. both I & III
- D. both I & II
- E. All I, II & III

90. According to the passage, which of the following is the cause of concern over decreased wheat stocks from the year's initial estimates?

I). The global wheat shortage provoked by the Russia-Ukraine war has changed everything.

II). There is an uneven drop in the purchase of wheat this Rabi season.

III). Scrapping of farm laws which were about opening up grain markets and relaxing stock limits.

- A. only I
- B. both I & III
- C. only II
- D. only III
- E. All I, II & III

91. Which of the following words can fill the blank marked (A), in the passage above?

- A. baffle
- B. drain
- C. terminate
- D. halt
- E. recur

92. Which of the following statements is/are NOT TRUE, according to the passage?

I). There is a scope to raise the rice component in Public Distribution System (PDS) this year.

II). If the centre continues to impose export controls or stock limits; this would undermine the confidence of farmers and brokers.

III). There is a dire need to emit premature policy signals to boost exports of staples.

- A. only II
- B. both II & III
- C. both I & III
- D. only I
- E. none of the above

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93. Which of the following is the SAME meaning to the word 'espousal', as mentioned in the passage?

- A. beguiling
- B. rejection
- C. opposition
- D. acceptance
- E. captivating

94. Which of the following is the meaning OPPOSITE to the word 'grudging', as mentioned in the passage?

- A. deploring
- B. inclined
- C. sleeking
- D. burnishing
- E. gobbling

Directions (95- 99): In the questions given below, three sentences are given which are divided into three parts out of which one part has an error in it. Find the part with error and mark that as your answer.

95.

I). With the removal of the most restrictions, (A)/ the probability of contact between (B)/ individuals has risen sharply (C)/.

II). India needs to vaccinate many people, and (A)/ the only way to get to that quickly is to have (B)/ a great number of vaccinations happening daily. (C)/.

III). The message to the public is that (A)/ the onus of controlling this pandemic (B)/ is now on individuals and not the government (C)/.

- A. (II)-A, (III)-B
- B. (I)-B, (III)-C, (II)-C
- C. (I)-A
- D. (I)-B, (II)-A, (III)-A
- E. All sentences are error free.

96.

I). Any of the world's best arabica (A)/ beans are grown on the (B)/ fertile land around Mount Kenya (C)/.

II). More recently, researchers warned that (A)/ editing the genetics of human embryos (B)/ can lead to unintended consequences (C)/.

III). Many Kenyans first gets (A)/ a taste for coffee via instant sachets (B)/ made from cheap robusta beans (C)/.

- A. (I)-A, (III)-A
- B. (I)-B, (III)-C, (II)-C
- C. (II)-C
- D. (I)-B, (II)-A, (III)-A
- E. All sentences are error free

97.

I). Azhdarchid pterosaurs are one type of pterosaur and (A)/ one of the distinguishing characteristic about them (B)/ is how big they were, especially their long necks. (C)/.

II). Among the six metro areas studied, (A)/ Los Angeles had by far the worst levels of (B)/

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crowding and as well as the highest housing costs. (C)/.

III). Anger is a negative feeling state that is (A)/ typically associated with hostile thoughts, (B)/ physiological arousal and maladaptive behaviors. (C)/.

- A. (I)-C, (III)-A
- B. (I)-B, (III)-C, (II)-C
- C. (II)-C
- D. (I)-B, (II)-C
- E. All sentences are error free

98.

I). People who are less physically active than (A)/ usual are experiencing more symptoms of (B)/ mental health conditions during the pandemic (C)/.

II). People who have continued to exercise (A)/ during the pandemic are more likely to be done (B)/ it for their mental health than for any other reason. (C)/.

III). The mental health benefits of physical activity have been (A)/ out of reach for people whose stress and anxiety levels have kept (B)/ them from exercising during the pandemic, a new study shows. (C)/.

- A. (I)-C, (III)-A
- B. (II)-B, (III)-C
- C. (II)-B
- D. (I)-B, (II)-A, (III)-A
- E. All sentences are error free

99.

I). Globally, many countries have enacted, (A)/ strengthened or contemplated mandatory (B)/ infant and childhood immunization (C)/.

II). Globally, infant and childhood vaccine uptake rates are not high enough (A)/ to control vaccine preventable diseases, with (B)/ outbreaks occurring even in high-income countries (C)/.

III). The introduction and widespread use of (A)/ vaccines have profoundly affected the (B)/ occurrence of several infectious diseases. (C)/.

- A. (I)-C, (III)-A
- B. (I)-B, (III)-C, (II)-C
- C. (II)-C
- D. (I)-B, (II)-A, (III)-A
- E. All sentences are error free.

Directions (100-103): In the questions given below, two sentences are given. Each sentence has some words given in bold, needed to be exchanged with words in bold in the other sentence. Find the correct pair of words to be exchanged and mark it as the answer.

100.

I). The Congress announced that Prashant Kishor has a) confirmed its offer to join the party, ending b) speculations surrounding the election strategist's c) widespread entry into India's oldest political party.

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II). China has d) declined the first known human case of the H3N8 e) strain of avian flu, but health authorities say there is a low risk of f) possible transmission among people.

- A. A-D, B-E & C-F
- B. B-F & C-E
- C. A-D & C-F
- D. A-E & B-F
- E. no interchange required

101.

I). It also said that students can a) retain doing the dual degree programmes physically through the two-shift system already in b) infrastructure or from two different institutions based on their c) proximity.

II). The States and Union Territories will be asked to d) consider and use the e) vogue put in place for treating COVID patients, so that they are readily f) available in case the numbers rise again, Union Health Minister Mansukh Mandaviya said.

- A. A-D, B-E & C-F
- B. A-D & B-E
- C. B-E
- D. B-F & C-D
- E. no interchange required

102.

I). Amid a) apprehensions of power supply b) relaxing in Delhi, the DMRC chief on Tuesday

said metro's operational need c) administration for only 2.5% of the total power requirement of the city.

II). The Khargone d) accounts decided against e) disruptions the curfew on Tuesday and asked people to f) celebrate EidulFitr and Akshaya Tritiya festivals at home in the violence-hit Madhya Pradesh city.

- A. A-D, B-F & C-E
- B. B-D & C-F
- C. A-F & B-D
- D. B-E & C-D
- E. no interchange required

103.

I). The State of Tamil Nadu has been witnessing a a) interaction between the b) urged government and the State Governor on the question of giving c) assent to the National Eligibility cum Entrance Test (NEET) Bill (linked to an all India premedical entrance test) passed by the State Assembly.

II). West Bengal CM Mamata Banerjee hit out at PM Narendra Modi, who d) elected states to e) reduce VAT in "national interest" during a virtual f) confrontation with chief ministers amid rising Fuel Prices across the country.

- A. A-F, B-D & C-E
- B. A-D & C-E
- C. B-D
- D. A-F & B-D
- E. no interchange required

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Directions (104-109): Five sentences have been given in each question below one of which is an odd one out. You are required to read the same carefully and choose the option with the odd sentence as your answer.

104.

- a). The BJP had constituted a five-member team in the aftermath of the violence in which eight people were burnt alive.
- b). The five members on the panel include Rajya Sabha member and former Uttar Pradesh Director General of Police Brajlal.
- c). Following an order of the Calcutta High Court, the Central Bureau of Investigation (CBI) has taken over the probe into the Birbhum violence.
- d). West Bengal BJP chief Sukanta Majumdar — met BJP president J.P. Nadda and presented the report on Wednesday.
- e). Claiming that “state-sponsored extortion, goonda tax and cut-money” were the main reasons for the violence, the report said the Centre should intervene.

- A. a
- B. b
- C. c
- D. d
- E. e

105.

- a). A World Cup like no other in its 92-year history will take shape this week.
- b). Qatar will be the top-seeded team in Group A, taking position A1 in the schedule.
- c). Qatar’s debut opens the tournament, Nov. 21 at Al Bayt Stadium.
- d). The entry list for the forthcoming Federation Cup athletics has been released.
- e). It means in the group stage Qatar avoids the world’s top-ranked teams, from Nos.1 to 7

- A. a
- B. b
- C. c
- D. d
- E. e

106.

- a). The government has increased the education budget, crossing Rs 1 lakh crore for the first time.
- b). The Centre and states work together to increase the public investment in education sector to reach 6 percent of Gross Domestic Product (GDP) at the earliest
- c). The recent grants have been provided for incentivizing our education field.
- d). Though we have not been informed yet when we will be able to adapt to in-person learning, it seems it will be done by summer.
- e). How long will the government take to meet the target of increasing public investment in education?

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- A. a
- B. b
- C. c
- D. d
- E. e

Directions (107-109): In the following questions, two sentences are given and followed by 3 connecting words. Find which of the words connects both the sentences. If none of the options is correct then mark Option E as your answer.

107.

I). High inflation adversely affects the poor, even making necessities unaffordable in certain situations.

II). Individuals form expectations about how prices will behave in the future to take precautions.

- a). subsequently
- b). therefore
- c). during the time

- A. only c
- B. both b & c
- C. only a
- D. only b
- E. None of these

108.

I). LIC's 1.3 million agents (as of December 2021) are not an endangered species for sure.

II). LIC agents are the largest insurance sales force in the country by far, accounting for 55% of the total number of agents in the country.

- a). in spite of that
- b). in fact
- C). instead

- A. both a & c
- B. both b & c
- C. only a
- D. only b
- E. None of these

109.

I). India has recorded the highest ever shipments in April that helped exports remain strong.

II). India's high value of imports caused the trade deficit to widen slightly over the previous month because of the prolonged Russia-Ukraine conflict.

- a). but
- b). so
- c). still

- A. both a & b
- B. only b
- C. both a & c
- D. only a
- E. None of these

Directions (110-112): The given questions carry a table in which parts of sentences have been given. You must choose the option that contains the pairs that when matched would form

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grammatically and contextually correct sentences.

110.

Column I	Column II
A. What is worse even if come to know of it _____.	D. to be the first British Asian and Hindu Prime Minister of the UK.
B. The East India Company began its political career in present-day Madras _____.	E. we cannot do anything about it.
C. Sunak, who is the son-in-law of Infosys founder NR Narayana Murthy, also happens _____.	F. the two communities could not see eye to eye again.

- A. B-F, C-E
- B. A-E, C-D
- C. A-D, B-E
- D. C-E
- E. B-D

111.

Column I	Column II
A. Low collection means lesser films and _____.	D. the new releases.
B. There may or may not be serious methodological issues, but dubbing the index as an attempt to _____.	E. taint India's image smacks of self-righteousness.
C. They resort to social media and trend hashtags boycotting _____.	F. and less employment.

- A. B-E, C-D
- B. A-F, C-E
- C. B-D, A-E
- D. C-E, A-D
- E. A-E, C-F

112.

Column I	Column II
A. Initial investigation has proved that the drug reached Indian _____.	D. shores from Afghanistan via Pakistan.
B. Hyderabad got choked because of rains and _____.	E. the attendant problems.
C. Going global by enabling students to be global citizens is emphasised multiple times _____.	F. in the National Education Policy 2020.

- A. A-F, B-E, C-D
- B. B-E, C-D
- C. A-E, B-D
- D. None matches
- E. A-D, B-E, C-F

Directions (113-115): There are two different sentences with a blank space in each question. Choose the word from the given options which fits into both the blanks appropriately without altering their meanings.

113.

- 1). The only difficulty in this _____ is to secure debtors that will not die.
- 2). She was in a state of rare contentment, an _____ to the gaiety that was hers By nature.

- A. accretion
- B. increase
- C. enlargement
- D. accessory
- E. None of the above

114.

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1). It was feared that there could be a _____ unsettling of established governments and a new political order could come into being, oriented away from the traditional leadership of the region.

2). On the other hand, _____ emigration was not sufficient to remove the evil.

- A. comprehensively
- B. wholesale
- C. voluminous
- D. extensive
- E. haphazard

115.

1). The French President Emmanuel Macron's new centrist party is _____ poised for a landslide victory in the parliamentary elections.

2). The opinion of parliament on two other questions during the session was, _____, influenced by events in France.

- A. evidently
- B. seemingly
- C. ostensibly
- D. apparently
- E. All of the above

Directions (116-120): The given paragraph has words highlighted in it. These words might either be correct or inappropriate in usage. You must read the same carefully and choose the options

that can best replace the highlighted words to form a meaningful paragraph.

The Indian nation is at a crossroads. While the world is going through a phase of undeclared economic recession, **pacified** and complicated by Covid-19 and now by the protracted war between Russia and Ukraine, India's economy is stable and growing the fastest. But our economic progress is far **backward** our true potential. India is a gifted nation from the point of view of natural resources and bounties as it shows a **latent** potential and promise for high growth-even in the **ideal** circumstances outlined above. The **intangible** potential for the explosive growth of the economy is even today strikingly visible.

116. Which of the given words would best replace the word 'pacified' as given above?

- A. Inflamed
- B. Worsened
- C. Intensify
- D. Assuaged
- E. No replacement needed

117. Which of the given words would best replace the word 'backward' as used above?

- A. Below
- B. Ahead
- C. Over
- D. Under
- E. No replacement needed

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118. Choose the option that replaces the word 'latent' as used above.

- A. Hidden
- B. Untapped
- C. Obvious
- D. Naïve
- E. No replacement needed

119. Which word from the options would come in place of 'ideal' as used above?

- A. Adverse
- B. Classic

C. Viable

D. Favourable

E. No replacement needed

120. Which of the given words would provide a better meaning to the line by replacing 'intangible'?

- A. Active
- B. Organic
- C. Essential
- D. Inherent
- E. No replacement needed

General Awareness

121. Recently (Feb 2024), which organization's milk processing unit did Prime Minister Narendra Modi visit during his inauguration of development projects in Varanasi?

- A. Amirtham Dairy Union Corporation
- B. Patanjali Ayurved Limited
- C. Banaskantha District Cooperative Milk Producers Union Ltd
- D. Mother Dairy Fruit & Vegetable Pvt. Ltd
- E. Parag Milk Foods Ltd

122. Which license does Amazon Pay already hold in addition to the newly acquired payment aggregator (PA) license from the Reserve Bank of India (RBI)?

- A. Prepaid Payment Instruments license
- B. Digital Lending license
- C. Payment Gateway license

D. Cryptocurrency Exchange license

E. Merchant Acquiring license

123. Recently (March 2024), who has been appointed as the new Chief Executive Officer (CEO) of the World Gold Council in India?

- A. Sachin Jain
- B. Ramesh Gupta
- C. Neha Sharma
- D. Vikram Singh
- E. Priya Patel

124. Which of the following statements about Homosep Atom, India's first septic tank/manhole cleaning robot, is correct?

- I). The technology was developed by a startup incubated in the DST-Technology Business Incubator (TBI) of IIT Madras.

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II). Homosep Atom utilizes robotic cleaning methods instead of manual cleaning methods.
III). Initially, the application of Homosep Atom was limited to Madurai and did not extend to other cities.

- A. Only I
- B. Only I and III
- C. Only II and III
- D. Only I and II
- E. All I, II and III

125. In Acko, Who has taken over as the new CEO of its subsidiary company- ACKO General Insurance?

- A. Chandra Kanth
- B. Srinivasan
- C. Kailash Sri
- D. Animesh Das
- E. Varun Dua

126. Which state launched the first Generative Artificial Intelligence (AI) teacher robot in India, called "_____", marking a significant advancement in the field of education?

- A. Karnataka & Iria
- B. Telangana & Irea
- C. Tamil Nadu & Igrow
- D. Kerala & Iris
- E. Goa & Ilea

127. The Reserve Bank of India (RBI) made its largest gold purchase since July 2022 when it

bought 8.7 tonnes of the metal in January 2024. Which year did the RBI begin purchasing gold in order to increase its reserves?

- A. 2020
- B. 2017
- C. 2019
- D. 2016
- E. 2018

128. Lama Lobzang, a well-known Buddhist monk from _____ and a former member of the National Commission for Scheduled Castes and Scheduled Tribes, passed away in New Delhi.

- A. Greenland
- B. Ladakh
- C. Iceland
- D. Greece
- E. Nepal

129. Tiger Triumph - 24, a bilateral tri-service Humanitarian Assistance and Disaster Relief (HADR) exercise between India and which country is under the established partnership between the two countries?

- A. Italy
- B. Singapore
- C. Malaysia
- D. United States
- E. Hungary

130. How many Member States currently comprise the Shanghai Cooperation Organisation

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(SCO), as 4th edition of the Shanghai Cooperation Organisation (SCO) Startup Forum was recently (Mar 2024) organized in New Delhi?

- A. 6
- B. 9
- C. 8
- D. 10
- E. 12

131. Who are the joint recipients of the 2024 GiRA Prize for their pioneering contributions to social and environmental inequalities research?

- A. Bina Argawal
- B. Prasada Rao
- C. James K. Boyce
- D. Both A and C
- E. Both B and C

132. In April 2024, What is the primary purpose of the cVIGIL app launched by the Election Commission of India?

- A. To facilitate online voting
- B. To provide real-time election results
- C. To report violations of the model code of conduct during elections
- D. To distribute campaign material to voters
- E. To conduct opinion polls

133. Match the following recent (May 2024) appointments according to their positions.

- A). Pradip Kumar Tripathi – (i) Border Management Secretary

B). Raj Kumar Goyal – (ii) Chairman of the Staff Selection Commission

C). Rajendra Kumar – (iii) Lokpal Secretary

D). Rakesh Ranjan – (iv) Secretary, Department of Justice

A. A-(ii), B-(iii), C-(i), D-(iv)

B. A-(i), B-(iv), C-(ii), D-(iii)

C. A-(iii), B-(iv), C-(i), D-(ii)

D. A-(iii), B-(i), C-(iv), D-(ii)

E. A-(iv), B-(ii), C-(iii), D-(i)

134. According to the recent news (April 2024), Due to very high valuations and the approaching general elections, FPIs have been more cautious and withdrew Rs. 325 crore from Indian equities in the first week of April 2024. In FPI, what is P stands for?

- A. Premium
- B. Profit
- C. Portfolio
- D. Predict
- E. Principle

135. Recently (April 2024), To commemorate _____ years since the Washington Treaty was signed, North Atlantic Treaty Organization (NATO) Foreign Ministers convened at NATO Headquarters in Brussels, Belgium.

- A. 50
- B. 75
- C. 100
- D. 125
- E. 150

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136. Recently (April 2024), The Government of India (GoI) nominated Manoj Panda, a former director of the Institute of Economic Growth, as a full-time member of the 16th Finance Commission. Who does he replace?

- A. Rajiv Kumar
- B. Niranjana Rajadhyaksha
- C. Mohan Singh
- D. Raghuram Rajan
- E. Arvind Subramanian

137. According to the Central Electricity Authority (CEA), Uttar Pradesh led the way regarding new transmission lines added by state transmission utilities in FY24. Which state ranks second?

- A. Rajasthan
- B. Gujarat
- C. Tamil Nadu
- D. Bihar
- E. Andhra Pradesh

138. The '_____', which was initiated on April 13, 1984, completed 40 years on April 13, the Indian Army observed Siachen Day.

- A. Operation Veer
- B. Operation Sakthi
- C. Operation Mighty
- D. Operation Meghdoot
- E. Operation Dare

139. According to the VSHORADS system, which of the following statements is true?

A). The Indian Army is undertaking two projects worth over Rs 6,800 crore to develop indigenous Very Short Range Air Defence (VSHORAD) systems.

B). The first project, valued at Rs 4,800 crore, is focused on developing a laser beam riding VSHORADS.

C). This project involves collaboration between a Hyderabad-based defense Public Sector Undertaking (PSU) and a private sector firm from Pune.

D). The Defence Research and Development Organisation (DRDO) is leading the development of an infra-red homing-based Very Short Range Air Defence (VSHORADS) system.

- A. Only A
- B. Only B
- C. Only C
- D. Only D
- E. All are true

140. In 2023, India ranked as the _____ - highest military spender globally, having spent \$83.6 billion to update a variety of weaponry and fighting systems.

- A. 4th
- B. 5th
- C. 8th
- D. 7th
- E. 6th

141. At the 42nd Inter-Agency Space Debris Coordination Committee (IADC) annual meeting,

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Indian Space Research Organization (ISRO) Chairman S. Somanath declared the country's intention to accomplish debris-free space missions by what year?

- A. 2029
- B. 2031
- C. 2030
- D. 2032
- E. 2033

142. On Earth Day, the National Bank for Agriculture and Rural Development (NABARD) launched its Climate Strategy 2030 document, which aims to meet India's growing demand for green funding. Who has issued the Climate Strategy 2030 document?

- A. Gopu Kiren
- B. Aditya Jay
- C. Ashok Vaswani
- D. Shaji KV
- E. Anand Ranjan

143. Recently (May 2024), The Reserve Bank of India (RBI) has permitted standalone primary dealers (SPDs) to borrow in foreign currency from their parent firms and other organizations it has authorized. They can also use the overdraft feature in their nostro accounts for operational needs. Which year did SPDs become authorized to provide forex products to clients, including international portfolio investors?

- A. 2018

- B. 2017
- C. 2016
- D. 2015
- E. 2014

144. According to the recent news (May 2024), Beneficiaries of the Pradhan Mantri Jan Arogya Yojana (PM-JAY) have received free hospitalization benefits of Rs 86,000 crore since the initiative was launched in what year?

- A. 2018
- B. 2017
- C. 2016
- D. 2015
- E. 2014

145. The Food Safety and Standards Authority of India (FSSAI) has ordered a comprehensive examination of spices from all brands across the country. Where is the FSSAI's headquarters situated in India?

- A. Pune
- B. New Delhi
- C. Kolkata
- D. Surat
- E. Bengaluru

146. Investments through participation notes in Indian capital markets reached Rs 1.5 lakh crore by the end of February 2024, the highest level in over six years, owing to the domestic economy's

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strong development. Who issues participatory notes (P-notes)?

- A. Venture capitalists
- B. Foreign Portfolio Investors
- C. Private Equity Investors
- D. P2P lender
- E. Crowdfunding

147. According to the recent news (May 2024), In which season did Mumbai City FC emerge as the winners of the Indian Super League (ISL) by defeating Mohun Bagan Super Giant in the final?

- A. 7th
- B. 8th
- C. 9th
- D. 10th
- E. 11th

148. Recently (May 2024), The MEDITECH STACKATHON 2024 was launched by the Department of Pharmaceuticals, under the Ministry of Chemicals and Fertilizers. Regarding market size, which rank does India hold for medical devices in Asia?

- A. 1st
- B. 2nd
- C. 3rd
- D. 4th
- E. 5th

149. Recently (May 2024), which book's cover design earned Bhavi Mehta the 9th edition of the Oxford Bookstore Book Cover Prize?

- A. The Book Thief
- B. The Book of Lost Things
- C. The Book of Tomorrow
- D. The Bookshop of Yesterday
- E. The Book Beautiful

150. Which country did César Luis Menotti, who recently passed away at the age of 85, lead to its first World Cup title in 1978?

- A. Argentina
- B. Germany
- C. Italy
- D. Brazil
- E. Spain

151. Under the Drone Didi Yojana, the Ministry of Skill Development and Entrepreneurship (MSDE) entered into a Memorandum of Understanding (MoU) with Mahindra & Mahindra Ltd for the implementation of two Pilot Projects. What is the interest rate payable on a loan from the National Agriculture India Financing Facility (AIF) under the NAMO Drone Didi Scheme?

- A. 2%
- B. 4%
- C. 3%
- D. 5%
- E. 1%

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152. Recently (May 2024), Which bank has introduced "PIXEL," an end-to-end, mobile app-based, customizable DIY digital card range?

- A. HDFC Bank
- B. Federal Bank
- C. ICICI Bank
- D. City Union Bank
- E. Axis Bank

153. Recently (May 2024), One97 Communications introduced the UPI Lite wallet, which simplifies payments, particularly for low-value transactions. According to that which of the following statements is false?

- A). Paytm's UPI Lite wallet offers a seamless payment experience, eliminating the need to enter a PIN for each transaction.
- B). Users can make instant transactions of up to Rs 1000 each using the UPI Lite wallet.
- C). Additionally, they can add up to Rs 2,000 to their wallet twice a day, totalling Rs 4,000 daily.
- D). Integration with major banks ensures a reliable payment experience for users.

Leading banks such as Axis Bank, HDFC Bank, State Bank of India, and YES Bank are part of this collaboration.

- A. Only C
- B. Only A
- C. All are True
- D. Only D
- E. Only B

154. Tata Consultancy Services (TCS), a global leader in IT services, consulting, and business solutions, has announced the establishment of a Global Artificial Intelligence (AI) Center of Excellence in Paris at the Choose France Summit, which was hosted by its President. Who is the current president of France?

- A. Vladimir Putin
- B. Luiz Inácio Lula da Silva
- C. Justin Trudeau
- D. Emmanuel Macron
- E. Tharman Shanmugaratnam

155. Recently (May 2024), the first set of citizenship certificates was issued to 14 people under the Citizenship (Amendment) Act (CAA) of _____, nearly two months after the Centre notified it, kicking off the process of granting Indian nationality to persecuted non-Muslim migrants from Pakistan, Afghanistan, and Bangladesh.

- A. 2015
- B. 2016
- C. 2017
- D. 2018
- E. 2019

156. Recently (May 2024), Which of the following Indian literary legacies have been added to the UNESCO Memory of the World Asia-Pacific Regional Register, indicating a notable achievement for India?

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- A. Ramcharitmanas
- B. Sahridayaloka-Locana
- C. Panchatantra
- D. Only A & B
- E. All A, B & C

157. Recently (May 2024) Pine Labs, an Indian merchant payment provider, has collaborated with which bank to offer payment solutions to the latter's commercial clients?

- A. U.S. Bancorp
- B. Barclays Bank
- C. Wio Bank
- D. Emirates NBD
- E. National Bank of Oman

158. Recently (May 2024), legendary Indian banker Narayanan Vaghul, recipient of the Padma Bhushan award, passed away. In which year he got the Padma Bhushan award?

- A. 2007
- B. 2008
- C. 2009

- D. 2010
- E. 2011

159. Which state's chief minister introduced the "Savera" program to identify rising female breast cancer cases early?

- A. Sikkim
- B. Haryana
- C. Bihar
- D. Assam
- E. Punjab

160. Recently (Feb 2024), the CCPA authority has issued draft guidelines for the prevention and control of greenwashing for public comment.

What does CCPA stand for?

- A. Central Consumer Prevention Authority
- B. Central Customer Protect Authority
- C. Central Clean Process Authority
- D. Central Consumer Protection Authority
- E. Central Consumer Plantation Authority

Computer Knowledge

161. _____ is the specialized OS for use in computers which are built into larger systems.

- A. Embedded OS
- B. Real time OS
- C. Mobile OS
- D. Network OS
- E. None of these

162. When you complete the mail and click the "Send" button, then the mail will automatically be sent to all the recipients' is called as _____

- A. To
- B. Carbon Copy
- C. Band Carbon Copy

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D. Band Curtesy Copy

E. Both c and d

163. Which one of the following is correct about Installation?

A. The process of transferring files from a computer on the internet to your computer on the internet to your computer.

B. Software that prevents unauthorized persons from accessing certain parts of a program, database or network.

C. A set of guidelines or standards that establish the format in which files can be transmitted from one computer to another.

D. The process of copying software programs from secondary storage media to the hard disk

E. Transforming of logic and data from design specifications (design descriptions) into a programming language

164. Which of the following operating system is not licensed by any company?

A. Windows

B. Apple

C. UNIX

D. LINUX

E. None of these

165. A special key that uniquely identifies each record in the table is known as _____.

A. Super Key

B. Candidate Key

C. Primary Key

D. Composite Key

E. Alternate Key

166. Which of the following was the world's first electronic programmable computing device?

A. EDVAC

B. ENIAC

C. PC

D. Colossus

E. None of these

167. _____ ensure secure transfer of data over an unsecured network, such as the Internet

A. Antivirus

B. Hacking

C. Cracking

D. Spoofing

E. Cryptography

168. A term used to describe services over a network by a collection of servers refers to _____.

A. Hardware

B. Master network

C. Cloud computing

D. Superior Server

E. None of these

169. Verification means we are building _____ and Validation means are we building _____

A. Right product, Product Right

B. Product Right, Right Product

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- C. Check procedure, Do Procedure
- D. Good Product, Right Product
- E. None of these

170. In Power Point, the Header & Footer button can be found on the Insert tab in what group?

- A. Illustration group
- B. Object group
- C. Table group
- D. Text group
- E. None of these

171. Which one of the following shortcut keys is used for Find and Replace?

- A. Ctrl + H
- B. Ctrl + P
- C. Ctrl + F
- D. Ctrl + K
- E. None of These

172. When was the world's first laptop computer introduced in the market and by whom?

- A. Hewlett-Packard, 1980
- B. Osborne, 1981
- C. Laplink Traveling Software Inc, 1982
- D. Tandy Model-200, 1985
- E. None of these

173. If we declare a method with same name and same parameter/signature in the different class is called as _____.

- A. Compile time polymorphism

- B. Runtime polymorphism
- C. Early Binding
- D. Both a and b
- E. None of these

174. In which type of malicious act, hacker contacts you by phone or email and attempts to acquire your password?

- A. Spoofing
- B. Phishing
- C. Spamming
- D. Bugging
- E. None of these

175. John Napier invented Logarithm in_____

- A. 1614
- B. 1617
- C. 1620
- D. 1724
- E. None of the above

176. Mnemonic is a memory trick used in which of the following language?

- A. Machine language
- B. Assembly language
- C. High level language
- D. Both A and B
- E. None of the above

177. Identify the correct statement

- A. IBM PCs used RISC CPU designs
- B. Macintosh used CISC CPU design

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- C. IBM used CISC CPU design
- D. None of above is true
- E. All of the above is true

178. FORTRAN programming language is more suitable for

- A. Business Applications
- B. Marketing Applications
- C. Scientific Applications
- D. None of the above
- E. Both B and C

179. What is the purpose of "IS" command in Linux?

- A. Repeat last word of last command line
- B. Repeat entire last command line
- C. Count the number of arguments
- D. Match to unknown values
- E. None of these

180. Auxiliary memory is also called _____.

- A. Primary memory
- B. Third memory
- C. Extra memory
- D. Secondary memory
- E. None of the above

181. A graph that can fit into one cell and gives the information about the data is known as _____.

- A. Chart

- B. Flash Fill
- C. Spark lines
- D. Slicer
- E. None of the above

182. _____ ports connect special types of music instruments to sound cards.

- A. MIDI
- B. CPU
- C. USB
- D. BUS
- E. OCR

183. Which among the following need to be refreshed frequently to maintain the data?

- A. SRAM
- B. DRAM
- C. EPROM
- D. EEPROM
- E. PROM

184. Which number system is commonly used as a shortcut notation for groups of our binary digits?

- A. Binary
- B. Decimal
- C. Octal
- D. Hexadecimal
- E. None of these

185. _____ is also known as inkless printer.

- A. Thermal printer
- B. Inkjet printer

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- C. OCR
- D. Dot Matrix printer
- E. None of these

186. Computers process data into information by working exclusively with

- A. Multimedia
- B. Words
- C. Characters
- D. Numbers
- E. None of these

187. The point at which the flow of text in a document moves to the top of a new page—

- A. Page insert
- B. Page break
- C. Page format
- D. All of the above
- E. None of the above

188. The smallest unit of information about a record in a database is called a

- A. Cell
- B. Field
- C. Record
- D. Query
- E. None of these

189. The full form of "FORTRAN" is_____.

- A. File Translation
- B. Format Translation
- C. Formula Translation

- D. Format Transformation
- E. None of these

190. E-R modelling technique uses which approach?

- A. top-down approach
- B. bottom-up approach
- C. left-right approach
- D. Both top-down and bottom-up
- E. None of these

191. Which among the following is the reboot where the power to the system is physically turned off and back on again, causing an initial boot of the machine?

- A. Toggle
- B. Cold booting
- C. Warm booting
- D. Logging off
- E. None of these

192. Which of the following Office programs offers the animation feature?

- A. Word
- B. Excel
- C. PowerPoint
- D. Access
- E. None of these

193. Which company is credited to start the first computer industry?

- A. IBM

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B. Apple

C. Compaq

D. HCL

E. None of these

194. UDP and TCP are categorised under the _____ layer of the OSI model.

A. Physical

B. Data link

C. Application

D. Transport

E. Network

195. Copying a process from memory to disk to allow space for other processes is called _____.

A. Swapping

B. Deadlock

C. Demand Paging

D. Page Fault

E. Cloud Computing

196. What was the name of the 1st microprocessor built by Intel?

A. 8008

B. 8080

C. 4004

D. 8800

E. None of these

197. Which constraint is used for preventing duplicability of data in the tables?

A. Primary Key

B. Unique

C. Null

D. Foreign key

E. None of these

198. Which of the following are valid minimum & maximum zoom sizes in MS word?

A. 0, 100

B. 0, 1000

C. 10, 500

D. 10, 100

E. None of these

199. In which generation did multi-programming start?

A. First generation

B. Second generation

C. Third generation

D. Fourth generation

E. None of these

200. Who among the following is said to be inventor of vacuum tubes?

A. Alexander Strand

B. Lee de Forest

C. John Ambrose Fleming

D. Charles Babbage

E. None of the above

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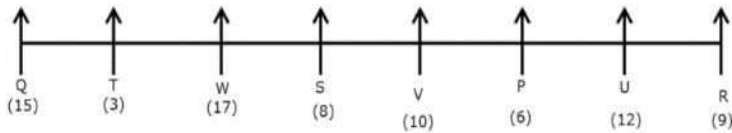
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Reasoning Ability

Directions (1-5):

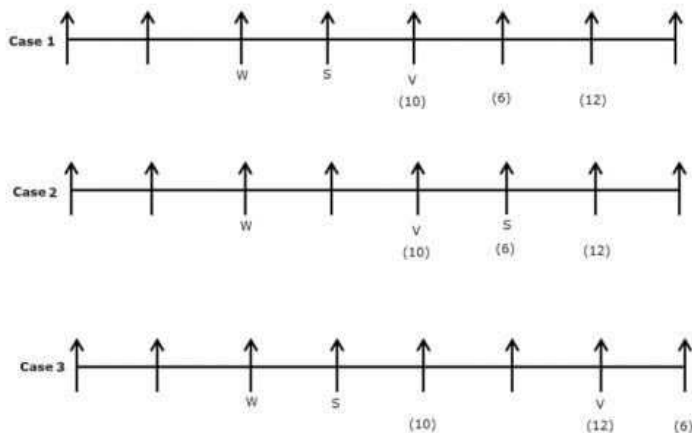
Final Arrangement



We have,

- W sits fourth to the left of the one who travelled to 12 cities where none of them sits at the end of the row.
- The number of persons sitting to the left of W is **one less** than the number of persons sitting to the right of the one who travelled to 10 cities.
- V sits immediate left of the one who travelled to 6 cities.
- The number of persons sitting between V and S is **two less** than the number of persons sitting between the one who travelled to 6 cities and W.

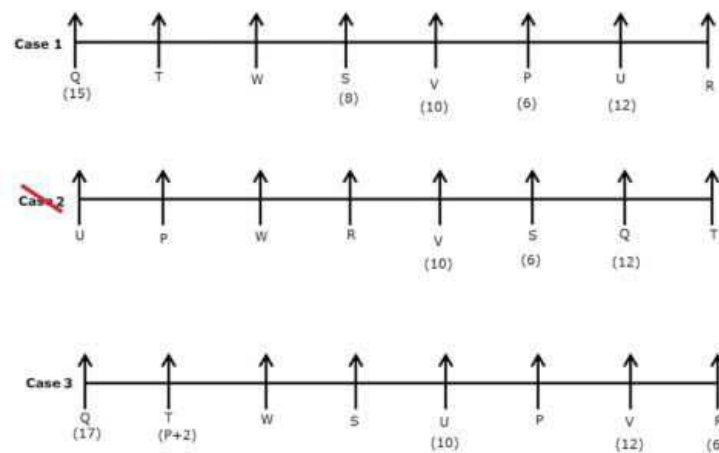
We have three possibilities from the above conditions.



Again, we have

- Q sits immediate left of T.
- Q travelled five cities more than V.
- U sits third to the right of the one who travelled two cities more than P.
- P sits second to the left of R.

Case 2 can be eliminated as Q travelled five cities more than V.

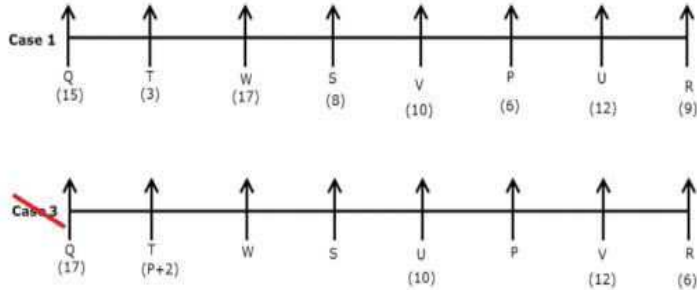


Finally, we have

- The difference between the number of cities travelled by Q and the one who sits immediate left of R is the same as the difference between the number of cities travelled by the one who sits immediate right of U and the one who sits second to the right of V.
- The sum of the number of cities travelled by S and U is the same as the sum of the number of cities travelled by T and W.
- P travelled twice the number of cities travelled by the one who sits immediate left of W.

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Case 3 can be eliminated as no one sit second to the right of V.



1. Answer: C

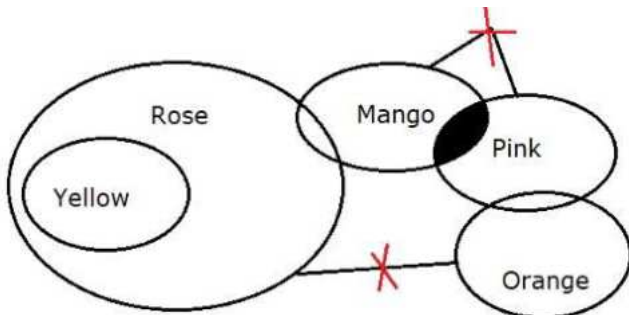
2. Answer: A

3. Answer: E

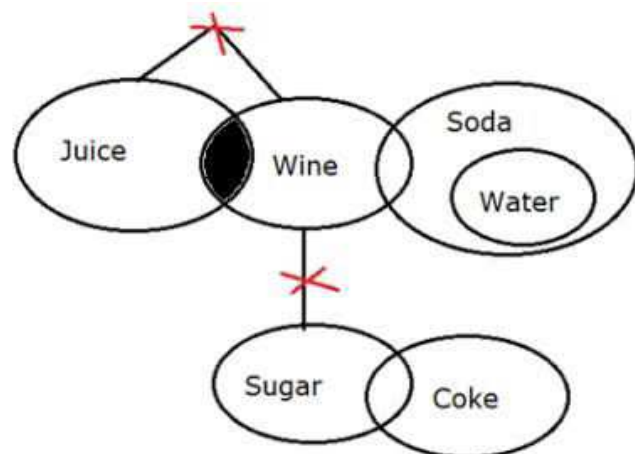
4. Answer: D

5. Answer: A

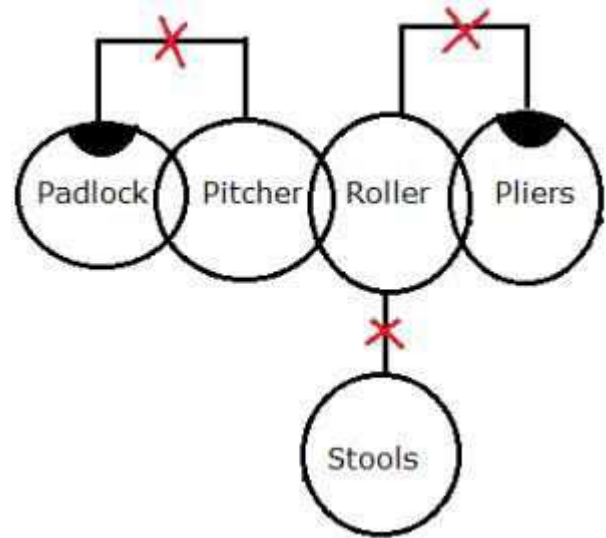
6. Answer: D



7. Answer: C



8. Answer: B



Directions (9-13):

Final Arrangement

Month with Date	Persons	Subject
January 7	K	Economics
January 28	I	History
February 7	N	Biology
February 28	P	Physics
March 7	J	Sociology
March 28	M	Maths
April 7	O	Chemistry
April 28	L	Philosophy

We have,

- J attends on an odd numbered date of the month having 31 days.
- Only two persons attend between the one who wrote History exam and J.
- As many persons attend the exam before the one who wrote History exam as after O.

There are two possibilities from the above conditions.

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Month with date	Case 1		Case 2		Case 3	
	Person	Subject	Person	Subject	Person	Subject
January 7	J				O	
January 28				History		
February 7						
February 28		History				
March 7	O		J		J	
March 28						
April 7			O			
April 28						History

Again we have,

- K attends three persons before the one who wrote Physics exam.
- K and O attend on the same date.
- M attends two persons after the one who wrote Physics exam.
- At least one person attends after M.

Case 1 and case 3 can be eliminated based on the above conditions as at least one person attends after M, who attends two persons after the one who wrote physics.

Month with date	Case 1		Case 2		Case 3	
	Person	Subject	Person	Subject	Person	Subject
January 7	J		K		O	
January 28				History		
February 7	K				K	
February 28		History		Physics		
March 7	O		J		J	
March 28		Physics	M			Physics
April 7			O			
April 28	M				M	History

Now we have,

- I attends immediately before the one who wrote Biology exam.
- J neither wrote Biology nor Economics exams.
- The number of persons attending the exam before N is **one more** than the number of persons attending the exam after the one who wrote Chemistry exam.

Again there are two possibilities from the above conditions for placing N and the one who wrote chemistry.

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Month with date	Case 2a		Case 2b	
	Person	Subject	Person	Subject
January 7	K		K	
January 28	I	History	I	History
February 7	N	Biology		Biology
February 28		Physics	N	Physics
March 7	J		J	
March 28	M		M	Chemistry
April 7	O	Chemistry	O	
April 28				

Finally, we have

- P attends two persons after the one who attends immediately after the one who wrote Economics exam.
- The one who wrote Philosophy exam attends three persons after the one who attends immediately before the one who wrote Maths exam.

Case 2b can be eliminated based on the above conditions as we cannot place P. Hence 2a is the final arrangement.

Month with date	Case 2a		Case 2b	
	Person	Subject	Person	Subject
January 7	K	Economics	K	
January 28	I	History	I	History
February 7	N	Biology		Biology
February 28	P	Physics	N	Physics
March 7	J	Sociology	J	
March 28	M	Maths	M	Chemistry
April 7	O	Chemistry	O	
April 28	L	Philosophy		

9. Answer: B

10. Answer: E

11. Answer: C

12. Answer: A

13. Answer: B

14. Answer: C

Form I: $B > Q$ ($B > R = S > Z \leq L = Q$) $\rightarrow$ False

From II: $Z < H$ ($H > T \geq R = S > Z$) $\rightarrow$ True

From III: $Q = B$ ($B > R = S > Z \leq L = Q$) $\rightarrow$ False

Hence, only conclusion II is true.

15. Answer: E

Form I: $W > U$ ($W = K \geq M < S = G > U$) $\rightarrow$ False

From II: $Q < L$ ($Q \leq T < W = K \geq M = L$) $\rightarrow$ False

From III: $Z > U$ ($Z > L = M < S = G > U$) $\rightarrow$ False

Hence, none of the conclusions are true.

16. Answer: B

Form I: $H > M$ ($H > Q = S > T \leq W = M$) $\rightarrow$ False

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From II: $S < T$ ($Q = S > T \leq W = M > Z \geq Y$) →

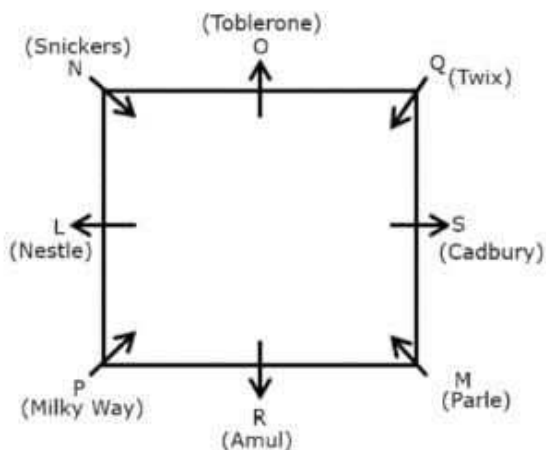
False

From III: $Q \geq T$ ($Q = S > T \leq W = M > Z \geq Y$) →

False

Directions (17-21):

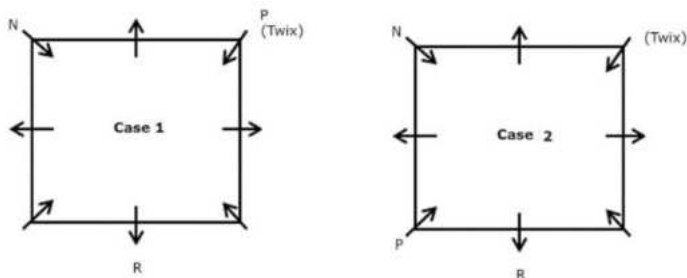
Final Arrangement



We have,

- R sits third to the left of the one who likes Twix.
- N sits immediate left of the one who sits opposite to R, who does not face the centre.
- One person sits between N and P.

There are two possibilities from the above conditions.

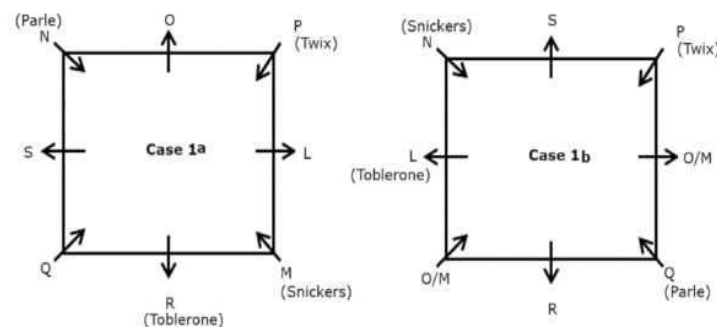


Again, we have

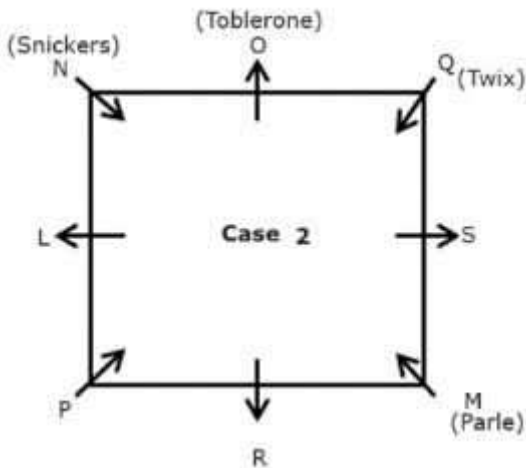
- L sits second to the left of the one who sits immediate left of the one who likes Snickers.
- S sits opposite to the one who sits second to the left of the one who likes Toblerone.
- Two persons sit between P and the one who likes Toblerone.
- L and S face the same direction.
- O sits second to the left of the one who sits immediate right of M.
- N and M are not immediate neighbours.
- As many persons sit between Q and N as between the one who sits immediate left of S and the one who likes Parle.

From the above conditions we get two

possibilities from Case 1, i.e, Case 1a and Case 1b. We also have Case 2. Hence we have three possibilities from the above conditions.



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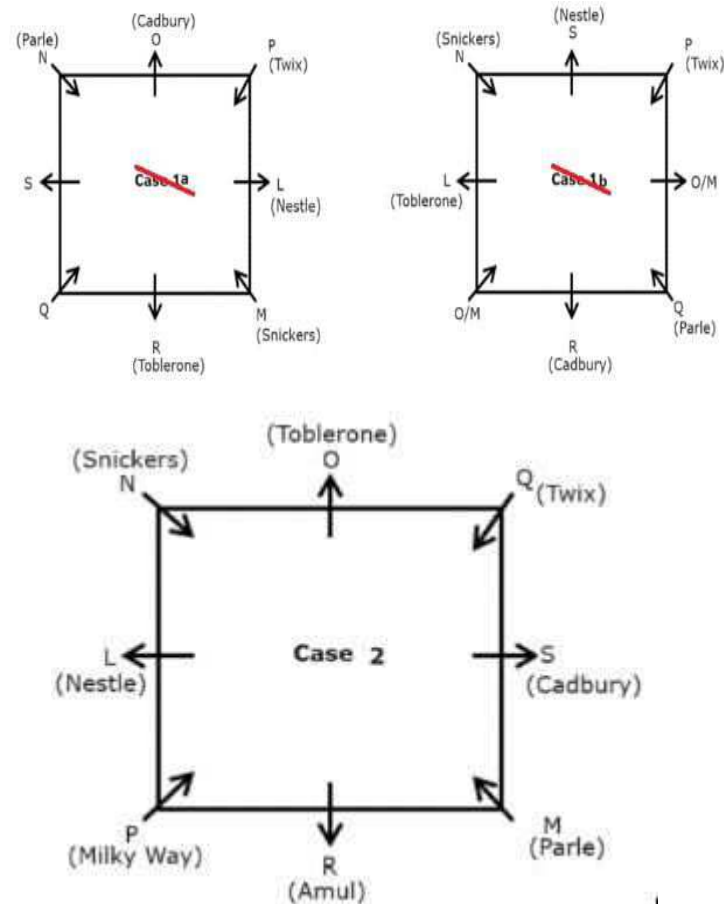


Finally, we have

- The one who likes the Milky Way sits immediate left of the one who sits second to the right of the one who likes Amul, who does not sit adjacent to L.
- The one who likes Nestle sits third to the right of Q.
- The number of persons sitting between the one who uses Nestle and the one who likes Toblerone is **one more** than the number of persons sitting between the one who likes Twix and the one who likes Cadbury when counted from the right of the one who likes Nestle.

Case 1a and Case 1b can be eliminated based on the above conditions as we cannot place the one who likes Milkyway and the one who like Amul.

Hence Case 2 is the final arrangement.



17. Answer: C

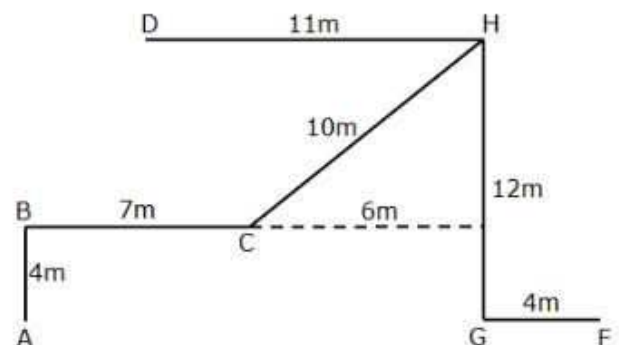
18. Answer: C

19. Answer: C

20. Answer: C

21. Answer: E

Directions (22-24):



22. Answer: B

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23. Answer: D

24. Answer: E

Directions (25-29):

Final Arrangement

City	Person and Activity
Cannes	E(Climbing) A(Cycling)
Florence	G(Snowboarding) B(Running) D(Acting)
Barcelona	C(Gardening) H(Aerobics) F(Singing)

We have,

- E likes Climbing and lives only with A.
- G lives in Florence.
- C likes Gardening and neither lives with G nor A.
- H lives in Barcelona.
- The one who lives in Cannes likes either Cycling or Acting.
- The one who likes Singing lives in Barcelona.

There are two possibilities from the above conditions.

City	Case 1	Case 2
Cannes	E(Climbing) A(Acting)	E(Climbing) A(Cycling)
Florence	G	G
Barcelona	C(Gardening) H (Singing)	C(Gardening) H (Singing)

Again we have,

- Neither B nor D lives in the same city of H.

- The one who lives in Florence likes Snowboarding.
- Neither B nor D likes Snowboarding.
- The one who likes Running does not live with the one who likes Cycling.
- The one who likes Aerobics lives with the one who likes Singing.
- F does not like Aerobics.
- D neither likes Cycling nor Running.

Case 1 can be eliminated based on the above conditions as the one who likes Running does not live with the one who like Cycling.

Hence Case 2 is the final arrangement.

City	Case 1	Case 2
Cannes	E(Climbing) A(Acting)	E(Climbing) A(Cycling)
Florence	G(Snowboarding) B(Running) D(Cycling)	G(Snowboarding) B(Running) D(Acting)
Barcelona	C(Gardening) H(Aerobics) F(Singing)	C(Gardening) H(Aerobics) F(Singing)

25. Answer: A

26. Answer: C

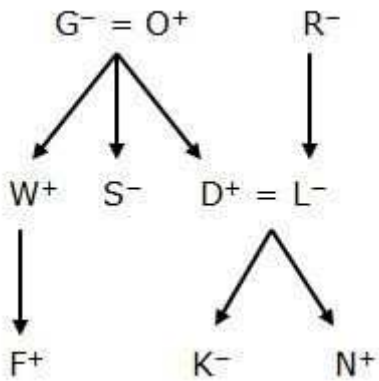
27. Answer: E

28. Answer: A

29. Answer: A

Directions (30-31):

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30. Answer: B

31. Answer: E

Directions (32-35):

In each step, one number and one word are arranged simultaneously.

For Words Arrangement: Words are arranged in alphabetical order from the left end according to the second letter from the right end of the word.

For Numbers Arrangement: The product of the digits within the number is obtained based on the resultant the original numbers are arranged in ascending order from the left end.

Hence, on given machine input we get the following arrangement.

Input: 82 29 firm 50 home gate 25 gray 33 laid meet 12

Step I: 50 Gray 82 29 firm home gate 25 33 laid meet 12

Step II: 50 Gray 12 meet 82 29 firm home gate 25 33 laid

Step III: 50 Gray 12 meet 33 laid 82 29 firm home gate 25

Step IV: 50 Gray 12 meet 33 laid 25 home 82 29 firm gate

Step V: 50 Gray 12 meet 33 laid 25 home 82 firm 29 gate

32. Answer: B

33. Answer: B

34. Answer: C

35. Answer: D

36. Answer: B

The statement says that the demand for vehicles will go up so we can conclude that the policy has the capacity to change the automobile sector of India.

So, statement I is correct.

Statement II is not correct as it is more like an extra information and does not work well as a conclusion.

37. Answer: A

The problem given in the statement is that the mountain trails are facing a huge problem of waste. Obviously it is being left like that by the visitors.

Looking at statement (I); if camping is disallowed, people will visit the place and come back. If they are allowed to get comfortable there they will organize parties, picnics and leave more waste above. So, though partially it does help solve the problem

Statement (II) however doesn't solve the problem as it is not only the foreigners who leave the

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trash. Most people who go there are responsible.
So, this will not solve or lessen the problem.
Hence, option (a) is the correct choice

38. Answer: A

When we read the following lines in the paragraph -> 'today's western youth have not known a world without them' can be used to infer that things like cheques etc have now been replaced by ATMs. So, statement (I) follows. Statement (II) however, gives different information which cannot be called as an inference because an inference is drawn based on the facts in the statement and nothing of the sort mentioned in (II) has been given in the same.

39. Answer: D

The airlines have already discounted the fares and as per the statement this step has been taken in order to increase the demand.

If they assume I, they would take the step in the statement

If they assume II, they would take the step in the statement

Hence, both I and II are good to be called as assumptions.

40. Answer: D

After reading the statement, we can find that neither I nor II can be inferred from the same. Both I and II are related to the idea being discussed but none can clearly be deduced from as nothing about their decline has been clearly mentioned and also the present year progress has not been discussed

Quantitative Aptitude

Directions (41-44):

Let the number of tables sold by shop A be $2a$.
Then the number of chairs sold by shop A = $3a$.
Number of tables sold by Shop B = $2a + 10$
Number of chairs sold by Shop B = 80
Number of tables sold by Shop C = 180
Number of chairs sold by Shop C = $320 - 180 = 140$
Number of tables sold by Shop B = $180 * (5/6) = 150$
 $2a + 10 = 150$
 $2a = 140$

$$a = 70$$

$$\text{Number of tables sold by shop A} = 2 * 70 = 140$$

$$\text{Number of chairs sold by shop A} = 3 * 70 = 210$$

$$\text{Cost price of each table in shop A} = \text{Rs.}240$$

$$\text{The price of each chair in shop A} = \text{Rs.}200$$

$$\text{Cost price of each table in shop B} = \text{Rs.}260$$

$$\text{Cost price of each chair in shop B} = \text{Rs.}210$$

$$\text{Cost price of each table in shop C} = 240 * (3/2) = \text{Rs.}360$$

$$\text{Cost price of each chair in shop C} = 210 * (6/5) = \text{Rs.}252$$

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Shop	Number of tables sold	Number of chairs sold	Cost price of each table	Cost price of each chair
A	140	210	240	200
B	150	80	260	210
C	180	140	360	252

41. Answer: C

Selling price of each furniture sold in Shop A =

$$(240 + 200) * (3/4) = \text{Rs.}330$$

Total number of furniture sets sold in Shop A = 140

$$\text{Total revenue generated in Shop A} = 140 * 330 + 70 * 200 = 46200 + 14000 = \text{Rs.}60200$$

42. Answer: A

Number of broken tables sold by shop B = $150 * (30/100) = 45$

Number of broken chairs sold by shop B = $80 * (45/100) = 36$

$$\text{Required sum} = 45 + 36 = 81$$

43. Answer: D

Number of tables sold by shop D = $140 * (125/100) = 175$

Number of chairs sold by shop D = $80 * (250/100) = 200$

$$\text{Total tables and chairs sold by shop D} = 175 + 200 = 375$$

44. Answer: B

Number of chairs sold by shop A at 20% profit =

$$210 * (60/100) = 126$$

Number of chairs sold by shop A at 25% loss =

$$210 - 126 = 84$$

$$\begin{aligned} \text{Required percentage} &= (126 * 6/5 * 200 + 84 * 3/4 * 200 - 210 * 200) / (210 * 200) * 100 \\ &= (151.2 + 63 - 210) / 210 * 100 = 4.2 / 210 * 100 = 2\% \text{ profit} \end{aligned}$$

Directions (45-49):

Total number of students in section A = $200 * (18/100) = 36$

Total number of students in section B = $200 * (25/100) = 50$

Total number of students in section C = $200 * (22/100) = 44$

Total number of students in section D = $200 * (20/100) = 40$

Total number of students in section E = $200 * (15/100) = 30$

Number of boys in section A = $80 * (10/100) = 8$

Number of boys in section B = $80 * (20/100) = 16$

Number of boys in section C = $80 * (30/100) = 24$

Number of boys in section D = $80 * (25/100) = 20$

Number of boys in section E = $80 * (15/100) = 12$

Number of girls in section A = $36 - 8 = 28$

Number of girls in section B = $50 - 16 = 34$

Number of girls in section C = $44 - 24 = 20$

Number of girls in section D = $40 - 20 = 20$

Number of girls in section E = $30 - 12 = 18$

Section	Total Students	Number of boys	Number of girls
A	36	8	28
B	50	16	34
C	44	24	20
D	40	20	20
E	30	12	18

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45. Answer: B

Total number of students participated in dance competition from section C = $44 \times 75/100 = 33$

Number of girls who participated in dance competition from section C = $20 \times 60/100 = 12$

The number of boys who participated in dance competition from section C = $33 - 12 = 21$

Percentage of boys who participated in dance competition from section C = $(21/24) \times 100 = 87.5\%$

46. Answer: D

Number of girls in section F = $28 + 12 = 40$

Number of boys in section F = $16 \times (5/4) = 20$

Total number of students in section F = $40 + 20 = 60$

47. Answer: C

From i,

Number of girls in section E = 18

Number of boys in section C = 24

Then, $(18/24) \times 100$

= 75%

Statement i is correct.

From ii,

Number of girls in section B = 34

Number of boys in section C = 24

Then, $((34 - 24)/24) \times 100$

= 41.66%

Statement ii is incorrect.

From iii,

Number of boys in section B = 16

Number of boys in section C = 24

Number of girls in section D = 20

Then, $(16 + 24)/2 = 20$

$40/2 = 20$

$20 = 20$

Statement iii is correct.

Only i and iii are correct.

48. Answer: A

Required percentage = $((16 + 24)/(28 + 34 + 18)) \times 100 = (40/80) \times 100 = 50\%$

49. Answer: C

Required ratio = $((8 + 16 + 12)/3) : ((28 + 20 + 18)/3) = 12 : 22 = 6 : 11$

Directions (50-54):

Total cars manufactured by Showroom A = $110 + 70 = 180$

P = 180

Number of cars manufactured by showroom D = $180 \times (100/150) = 120$

$z + 15 = 120$

$z = 105$

Number of cars unsold in showroom D = $120 - 52 = 68$

y = 68

Number of cars sold by showroom C = $y + 32 = 68 + 32 = 100$

Number of cars manufactured by showroom C = $100 + 160 = 260$

$x + 176 = 260$

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$$x = 84$$

Number of cars sold by showroom B = $84 + 20 = 104$

Showroom	Number of cars manufactured	Number of cars sold	Number of cars unsold
A	180	110	70
B	224	104	120
C	260	100	160
D	120	52	68

$$P = 180, x = 84, y = 68, z = 105$$

50. Answer: B

The car unsold in showroom B = 120

The car unsold in showroom C = 160

The car unsold in showroom D = 68

The average of the car unsold in showroom B, C, and D = $(120 + 160 + 68)/3$

$$= 348/3 = 116$$

From i,

$$1.5x - 10$$

$$= 1.5 * 84 - 10$$

$$= 116$$

i is correct.

From ii,

$$2y - 20$$

$$= 2 * 68 - 20$$

$$= 116$$

ii is correct.

From iii,

$$0.5P + 42$$

$$= 0.5 * 180 + 16$$

$$= 106$$

iii is incorrect.

Only i and ii are correct.

51. Answer: D

Total number of petrol cars manufactured by showroom A = $180 * (60/100) = 108$

Number of diesel cars manufactured by

$$\text{showroom A} = 180 - 108 = 72$$

Number of diesel cars sold by showroom A = $110 * (5/11) = 50$

Number of diesel cars unsold by showroom A = $72 - 50 = 22$

52. Answer: A

Number of cars still unsold by Showroom C = $160 * (3/5) = 96$

53. Answer: C

Number of cars manufactured by Showroom S = $3 * 84 = 252$

Number of cars unsold by Showroom S = $2 * 68 = 136$

Number of cars sold by Showroom S = $252 - 136 = 116$

Required average = $(104 + 116)/2 = 220/2 = 110$

54. Answer: D

Number of cars sold by Showroom G = $110 * (14/11) = 140$

Number of cars manufactured by Showroom G = $140 * (100/40) = 350$

Number of cars unsold by Showroom G = 210

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Required sum = $210 + 70 = 280$

55. Answer: A

$$6 * 2 + 2 = 14$$

$$14 * 2 + 2 = 30$$

$$30 * 2 + 2 = 62$$

$$62 * 2 + 2 = 126$$

$$126 * 2 + 2 = 254$$

The missing number is 14

56. Answer: C

$$2 * 13 = 26$$

$$26 * 11 = 286$$

$$286 * 7 = 2002$$

$$2002 * 5 = 10010$$

$$10010 * 3 = 30030$$

The missing number is 26.

57. Answer: B

$$110 + 12 + 1 = 112$$

$$112 + 22 + 1 = 117$$

$$117 + 32 + 1 = 127$$

$$127 + 42 + 1 = 144$$

$$144 + 52 + 1 = 170$$

The missing number is 144.

58. Answer: D

7 21 44 94 225 599

14 23 50 131 374

3² 3³ 3⁴ 3⁵

The missing number is 599.

59. Answer: B

$$2$$

$$2 + 13 + 1 = 4$$

$$4 + 23 - 1 = 11$$

$$11 + 33 + 1 = 39$$

$$39 + 43 - 1 = 102$$

$$102 + 53 + 1 = 228$$

Missing number is 228.

60. Answer: E

H.C.F of a and b is 1 means a and b both are co-prime numbers.

$$\text{So } a = 8, \text{ and } b = 11$$

$$\text{Then, } x^2 - 8x - 105 = 0$$

$$x^2 - (15 - 7)x - 105 = 0$$

$$x^2 - 15x + 7x - 105 = 0$$

$$x(x - 15) + 7(x - 15) = 0$$

$$(x - 15)(x + 7) = 0$$

$$x = 15, -7$$

$$y^2 - 11y - 6y + 72 = 0$$

$$y^2 - 17y + 72 = 0$$

$$y^2 - (9 + 8)y + 72 = 0$$

$$y^2 - 9y - 8y + 72 = 0$$

$$y(y - 9) - 8(y - 9) = 0$$

$$(y - 9)(y - 8) = 0$$

$$y = 9, 8$$

$x = y$ or the relation cannot be established

61. Answer: E

$$\sqrt{a^2 + b^2} = 4\sqrt{10}$$

$$\sqrt{((3b)^2 + b^2)} = 4\sqrt{10}$$

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$$\sqrt{10b} = 4\sqrt{10}$$

$$b = 4$$

$$a = 3 * 4 = 12$$

$$x^2 - (a + b)x + 39 = 0$$

$$x^2 - (12 + 4)x + 39 = 0$$

$$x^2 - 16x + 39 = 0$$

$$x^2 - (13 + 3)x + 39 = 0$$

$$x^2 - 13x - 3x + 39 = 0$$

$$x(x - 13) - 3(x - 13) = 0$$

$$(x - 3)(x - 13) = 0$$

$$x = 13, 3$$

$$y^2 - (1.5a - 0.25b)y + 72 = 0$$

$$y^2 - (18 - 1)y + 72 = 0$$

$$y^2 - 17y + 72 = 0$$

$$y^2 - (9 + 8)y + 72 = 0$$

$$y^2 - 9y - 8y + 72 = 0$$

$$y(y - 9) - 8(y - 9) = 0$$

$$(y - 9)(y - 8) = 0$$

$$y = 9, 8$$

$x = y$ or the relation cannot be established

62. Answer: E

$$x(x^2 + 2x - 63) = 0$$

$$x(x^2 + (9 - 7)x - 63) = 0$$

$$x(x^2 + 9x - 7x - 63) = 0$$

$$x(x(x + 9) - 7(x + 9)) = 0$$

$$x(x - 7)(x + 9) = 0$$

$$x = 0, 7, -9$$

$$y(y^2 + 4y - 77) = 0$$

$$y(y^2 + (11 - 7)y - 77) = 0$$

$$y(y^2 + 11y - 7y - 77) = 0$$

$$y(y(y + 11) - 7(y + 11)) = 0$$

$$y(y - 7)(y + 11) = 0$$

$$y = 0, 7, -11$$

$x = y$ or the relation cannot be established

63. Answer: B

$$\text{Investment of A} = x - 1200$$

$$\text{Investment of B} = x + 1800$$

The ratio of profit of A to B = 3 : 8

The ratio of profit is the same as the ratio of investment.

$$\text{Then, } (x - 1200)/(x + 1800) = 3/8$$

$$8x - 9600 = 3x + 5400$$

$$5x = 15000$$

$$x = 3000$$

64. Answer: A

Percentage of income spent on rent = $x\%$

Percentage of income spent on food = $(x + 10)\%$

Money left after spending on food and rent =

$$100\% - (2x + 10)\%$$

$$\text{Amount left with the person} = (100\% - (2x + 10)\%) (64/100)$$

$$\text{Then, } (100\% - (2x + 10)\%) (64/100) = 32$$

$$100\% - (2x + 10)\% = 50$$

$$90 - 2x = 50$$

$$2x = 40$$

$$x = 20$$

65. Answer: A

$$\text{Set A} = \{x, x + 2, x + 4, x + 6, x + 8\}$$

$$\text{Average of set A} = [x + (x + 2) + (x + 4) + (x + 6) + (x + 8)]/5 = 18$$

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$$5x + 20 = 90$$

$$5x = 70$$

$$x = 14$$

$$\text{Set A} = \{14, 16, 18, 20, 22\}$$

$$\text{Set B} = \{y, y + 2, y + 4, y + 6\}$$

$$y: (y + 6) = 7: 9$$

$$9y = 7y + 42$$

$$2y = 42$$

$$y = 21$$

$$\text{Set B} = \{21, 23, 25, 27\}$$

$$\text{Set C} = \{z, z + 1, z + 2, z + 3, z + 4, z + 5\}$$

$$z + 1 = 14 + 21$$

$$z + 1 = 35$$

$$z = 34$$

$$\text{Second largest number of set C} = z + 4$$

$$= 38$$

66. Answer: B

$$\text{Total cost price of items K, L, M, N, and O} = 620 \times$$

$$5 = ₹ 3100$$

$$\text{Total selling price of items K, L, M, N, and O} = x +$$

$$(x + 25) + (x + 50) + (x + 75) + (x + 100) = (5x +$$

$$250)$$

According to the question:

$$125\% \text{ of } 3100 = 5x + 250$$

$$(5/4) \text{ of } 3100 = 5x + 250$$

$$3100 = 4x + 200$$

$$4x = 2900$$

$$x = 725$$

$$\text{Selling price of item O} = x + 100 = ₹ 825$$

$$\text{Profit amount earned on item O} = 825 - 620 =$$

$$₹ 205$$

$$\text{Required profit percent} = (205/620) \times 100$$

$$= 33.06\%$$

$$= 33\%$$

67. Answer: D

Let speed of boat in still water and speed of stream is 'x' km/h and 'y' km/h respectively.

$$\text{Downstream speed of boat} = (x + y)$$

$$\text{Upstream speed of boat} = (x - y)$$

According to the question:

$$(x + y) - (x - y) = 6$$

$$2y = 6$$

$$y = 3$$

And,

$$\frac{36}{x+3} = \frac{4}{5} \times \frac{15}{x-3}$$

$$\frac{9}{x+3} = \frac{3}{x-3}$$

$$9(x - 3) = 3(x + 3)$$

$$3x - 9 = x + 3$$

$$2x = 12$$

$$x = 6$$

Distance travelled by boat in 4 hours 10 minutes

$$\text{in still water} = (4 + 10/60) \times 6$$

$$= (25/6) \times 6$$

$$= 25 \text{ km}$$

68. Answer: C

Let the present age of A and B is '8x + 12' and '9x + 12' respectively.

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Let the present age of C and D is ' $25y - 8$ ' and ' $29y - 8$ ' respectively.

According to the question:

$$(25y - 8) - (9x + 12) = 12$$

$$25y - 9x = 32 \dots (1)$$

$$(9x + 12) + (29y - 8) = 80$$

$$9x + 29y = 76$$

$$9x = 76 - 29y \dots (2)$$

From (1) and (2):

$$25y - (76 - 29y) = 32$$

$$54y = 108$$

$$y = 2$$

$$\text{Present age of D} = 29y - 8$$

$$= 58 - 8$$

$$= 50 \text{ years}$$

69. Answer: B

When P and R working in alternate manner, they complete the work in 24 days, that mean P worked for 12 days and R work for 12 days.

$$\text{Total work} = 12 \times 3 + 12 \times 2 = 60 \text{ units}$$

$$\text{Value of T} = 60 / (3 + 2) = 12 \text{ days}$$

$$\text{Remaining work complete by S in} = 12/2 = 6 \text{ days}$$

$$\text{Ratio of efficiency of Q and S respectively} = 5:4$$

$$\text{So, time taken by Q alone to complete the work} =$$

$$(9x \times 4 + 4x \times 6)/5 = 12 \text{ days}$$

Hence answer is option B

70. Answer: E

$$\text{Initial quantity of milk in mixture A} = 240 \times (8/15) =$$

$$128 \text{ L}$$

$$\begin{aligned} \text{Initial quantity of water in mixture A} &= 240 \times (7/15) \\ &= 112 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Quantity of milk in mixture A when 30 L is taken} \\ \text{out and replaced with same quantity of water} &= \\ 128 - 30 \times (8/15) &= 128 - 16 = 112 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Quantity of water in mixture A when 30 L is taken} \\ \text{out and replaced with same quantity of water} &= \\ 112 - 30 \times (7/15) + 30 &= 112 - 14 + 30 = 128 \text{ L} \end{aligned}$$

$$\text{Ratio of milk to water in mixture A} = 112 : 128 = 7 : 8$$

$$\begin{aligned} \text{Quantity of milk in mixture A when 60 L is taken} \\ \text{out and replaced with same quantity of water} &= \\ 112 - 60 \times (7/15) &= 112 - 28 = 84 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Quantity of water in mixture A when 60 L is taken} \\ \text{out and replaced with same quantity of water} &= \\ 128 - 60 \times (8/15) + 60 &= 128 - 32 + 60 = 156 \text{ L} \end{aligned}$$

$$\text{Quantity of milk in mixture B} = 260 \times (8/13) = 160 \text{ L}$$

$$\begin{aligned} \text{Quantity of water in mixture B} &= 260 \times (5/13) = \\ 100 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Total quantity of milk when mixtures A and B are} \\ \text{mixed} &= 84 + 160 = 244 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Total quantity of water when mixtures A and B are} \\ \text{mixed} &= 156 + 100 = 256 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Required difference} &= 256 - 244 \\ &= 12 \text{ L} \end{aligned}$$

71. Answer: A

$$\text{Let the amount invested at compound interest} = P$$

According to the question:

$$P \times [(1 + 10/100)^2 - 1] = 3780$$

$$P \times 0.21 = 3780$$

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P = 18000

Total amount received when invested at simple interest = ₹ 18000

According to the question:

$$(x + 500) + \frac{(x + 500) * 5 * 10}{100} = 18000$$

$$(x + 500) + \frac{(x + 500)}{2} = 18000$$

$$\frac{3(x + 500)}{2} = 18000$$

$$x + 500 = 12000$$

$$x = ₹ 11500$$

72. Answer: D

Let number of students in class A and B are $9x$ and $11x$ respectively.

According to the question:

$$(9x + 10) : 11x = 14 : 11$$

$$9x + 10 = 14x$$

$$5x = 10$$

$$x = 2$$

$$\text{Initial number of students in class A} = 9x = 18$$

$$\text{Initial number of students in class B} = 11x = 22$$

Statement I:

Difference between initial number of students in both the classes = $22 - 18 = 4$

So, statement I is not correct.

Statement II:

$$\text{Number of girls in class B} = 22 * (4/11) = 8$$

So, statement II is not correct.

Hence, both the statements are not correct.

73. Answer: E

Let initial quantity of milk and water in the mixture is $16x$ and $9x$ respectively.

Statement I alone:

Quantity of water in the mixture when water of same quantity as already there in the mixture is added = $9x + 9x = 18x$

According to the question:

$$18x - 16x = 8$$

$$2x = 8$$

$$x = 4$$

$$\text{Total quantity of water in the mixture} = 9x = 36 \text{ L}$$

So, statement I alone is sufficient.

Statement II alone:

25% of total initial quantity of the mixture = 25% of $(16x + 9x) = 25\%$ of $25x = 6.25x$

Quantity of water in the mixture when $6.25x$ L of water is added in the mixture = $9x + 6.25x = 15.25x$

According to the question:

$$16x - 15.25x = 3$$

$$0.75x = 3$$

$$x = 4$$

$$\text{Total quantity of water in the mixture} = 9x = 36 \text{ L}$$

So, statement II alone is sufficient.

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

74. Answer: C

Ratio of investment of P and Q respectively = $3:4$

$[3a, 4a]$

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Ratio of investment of R and S respectively = 2:1

[2b, b]

Ratio of profit Share of P, Q, R and S = $(3a \times 2):$

$(4a \times 3): (2b \times 3): (b \times 2)$

= 3a: 6a: 3b: b

From I

Profit share of R is six time as that of P

So,

$3a/3b = 1/6$

Value of b = 6a

So, ratio of profit share of P, Q, R, and S =

3a:6a:3 x 6a:6a

= 1:2:6:2

Profit share of Q and S together = $[(2 + 2) / 11] \times$

3300 = Rs. 1200

This statement is alone sufficient to answer the question.

From II.

Ratio of profit share of P, Q, R, and S = 3a: 6a:

3b: b

Now,

$(3b - 6a) / (3a + 6a + 3b + b) = 1200/3300$

$(3b - 6a) \times 11 = (9a + 4b) \times 4$

$33b - 66a = 36a + 16b$

$17b = 102a$

Value of b = 6a

So, Ratio of profit = 1:2:6:2

So, profit share of Q and S together = $[(2 + 2) / (6$

$- 2)] \times 1200 = \text{Rs. } 1200$

This statement alone is sufficient to answer the question.

Hence answer is option C

75. Answer: A

Curved surface area of cone = 1755 cm²

Base area of cone = 1755 – 1080 = 675 cm²

Now,

$3 \times R^2 = 675$

Value of R = 15 cm

Also,

$3 \times R \times \text{slant height of cone} = 1755$

So, slant height of cone = $1755 / (3 \times 15) = 39$ cm

So, Height of cone = $(39^2 - 15^2)^{1/2} = 36$ cm

So, $2H - 4 = 36$

Value of H = 20 cm

Height of cylinder = 20 cm

Radius of cylinder = 15 – 3 = 12 cm

Volume of cylinder = $3 \times 12 \times 12 \times 20 = 8640$ cm³

Hence answer is option A

76. Answer: B

Total balls in bag = 2K + 3

Black balls in bag = K

So, white balls in bag = 2K + 3 – K = K + 3

Now,

$K + 3C^2 / 2K + 3C^2 = 12/35$

$[(K + 3) (K + 2)] / [(2K + 3) (2K + 2)] = 12/35$

No need to solve this dicey equation, we can easily go with options.

$35 = 7 \times 5$

There should be a multiple of 7 and 5 in denominator.

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By simple putting values, in only option b, we are getting multiples of both 5 and 7, not in other option.

If $K = 6$, then

$$(9 \times 8) / (14 \times 15) = 12/35$$

Hence answer is option B

77. Answer: E

For A

$$A. P^2 - 25P + 144 = 0$$

$$(P - 16)(P - 9) = 0$$

$$P = 9, 16$$

I). At least one root of the same equation is a perfect square [follows]

II). Difference of root is not less than 7

$$\text{Difference of roots} = 16 - 9 = 7 \text{ (follows)}$$

III). HCF of $|Z|$ and $|Y|$ is not more than 1, where Z and Y are the roots of same equation.

HCF of 16 and 9 is 1 (follows)

So, possible combinations are A – I, A – II, and A – III

For B

$$6Q^2 - Q - 40 = 0$$

$$(3Q - 8)(2Q + 5) = 0$$

$$Q = 8/3, -5/2$$

I). At least one root of the same equation is perfect square. [Not follows]

II). Difference of root is not less than 7.

$$\text{Difference of roots} = 8/3 + 5/2 = 31/6 \text{ (not follows)}$$

III). HCF of $|Z|$ and $|Y|$ is not more than 1, where Z and Y are the roots of same equation.

$$\text{HCF of } (8/3, 5/2) = 1 \text{ [follows]}$$

So, possible combination is B – III

For C

$$C. 2R^2 + 3R - 135 = 0$$

$$(2R - 15)(R + 9)$$

$$R = 15/2, -9$$

I). At least one root of the same equation is perfect square. [Follows]

II). Difference of root is not less than 7

$$\text{Required difference} = 15/2 + 9 = 16.5 \text{ [follows]}$$

III). HCF of $|Z|$ and $|Y|$ is not more than 1, where Z and Y are the roots of same equation. [Not follows]

$$\text{HCF of } (15/2, 9/2) = 3/1 = 3$$

So, possible combinations are C – I, and C – II

Hence answer is option E

78. Answer: C

$$\text{Root of the given equation} = 15/2 - 5/2 = 5$$

So,

$$15a + 60b = 52 + 43 \times 5$$

$$(a + 4b) = 16$$

Possible value of $a = 4, 8$, and 12

Possible value of $b = 3, 2, 1$

$$\text{Maximum sum} = 12 + 1 = 13$$

Hence answer is option C

79. Answer: C

Let number of girls failed in Mock = $8a$

$$\text{So, number of girls passed in mock} = 87.5\% \times 8a = 7a$$

$$\text{So, number of boys failed in mock} = 8a - 20$$

Now,

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$$8a + 7a + 8a - 20 + 25 = 120$$

$$23a = 115$$

Value of $a = 5$

So, number of girls attempting mock = $8a + 7a =$

$$15 \times 5 = 75$$

Hence answer is option C

80. Answer: B

Let speed of boat in still water and speed of stream is 'x' km/h and 'y' km/h respectively.

Downstream speed of boat = $(x + y)$

Upstream speed of boat = $(x - y)$

According to the question:

$$\frac{180}{x + y} + \frac{120}{x - y} = 12$$

$$\frac{15}{x + y} + \frac{10}{x - y} = 1 \dots\dots\dots (1)$$

$$\frac{60}{x - y} = \frac{72}{x + y} + \frac{36}{60}$$

$$\frac{12.5}{x - y} = \frac{15}{x + y} + \frac{1}{8}$$

From (1) and (2):

$$\frac{12.5}{x - y} - \frac{1}{8} + \frac{10}{x - y} = 1$$

$$\frac{22.5}{x - y} = 1 + \frac{1}{8} = \frac{9}{8}$$

$$x - y = 20$$

So, upstream distance travelled by boat in 4

$$\text{hours} = (x - y) \times 4 = 20 \times 4$$

$$= 80 \text{ km}$$

English Language

81. Answer: D

The second last para of the passage tells us the obstacles that we would face if we were to completely shift from non-renewable energy to renewable energy. Refer to the lines:

"Renewable energy cannot completely replace fossil based energy generation because of obvious reasons like sun's energy not being available 24 hours a day, solar generation being highly unpredictable and technological

innovations yet to develop an efficient storage solution."

Both 1 and 3 follow. Thus, D is the right answer.

82. Answer: B

The passage tells us that solar energy is a huge opportunity for India, a developing country, as it has the capacity to provide electricity to homes. It also tells us that it has potential for job creation. Refer to the lines: "For a developing country like India, where electricity for every home was once

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considered a dream is now close to reality. The government initiative of 'power for all' is changing the socio-economic structure of the country. The sector also has immense potential to create new jobs; 1 GW of Solar manufacturing facility generates approximately 4000 direct and indirect jobs." Thus, B is the right answer.

3 is incorrect as the author does not imply that India should completely shift to renewable energy because other countries are doing so.

83. Answer: B

B is the right answer. Refer to the lines: Though tech advancements are underway for storage, which has the potential to revolutionise this sector globally, till then dependence on fossils can be reduced by gradually increasing the share of renewables. The passage states that one of the limitations of the renewable energy sector is storage. It also states that technological advancements in storage technology may revolutionise the renewable energy sector.

A is incorrect. Refer to the lines: Renewable energy cannot completely replace fossil based energy generation because of obvious reasons like sun's energy not being available 24 hours a day..... C is incorrect. The passage does not refer to solar power as one of the sectors with maximum potential. D is incorrect. The passage merely states that China has established manufacturing clusters for renewable energy. It

does not mean India would not be able to compete with China.

Therefore, option B is the correct answer.

84. Answer: C

2 and 3 are true as per the passage. Refer to the lines: "India's per capita energy consumption currently stands close to one-third of the world average. India is running renewable energy initiatives in a big way and has emerged as the second most attractive market for renewable energy equipment in the world. With the headquarters of International Solar Alliance, India is all set to become a global leader in solar energy." 1 is untrue as the passage tells us that solar and wind energy were once costly, but now much cheaper than the conventional form of energy. Thus, C is the right answer.

85. Answer: A

The passage revolves around the shift towards solar power in India, the challenges faced, and the opportunity it provides. Option A best sums up this idea, which makes it the right answer. B is incorrect as the passage briefly focuses only on China, and does not draw a comparative analysis. C is incorrect as the passage does not focus on whether India should or shouldn't rely on solar power, it simply talks about its scope in India, and how it would be impossible to completely depend upon solar energy. E is incorrect as the passage does not throw much light on developing

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countries as a whole; it sticks to the context surrounding India, along with brief examples of a few other countries.

Therefore, option A is the correct answer.

86. Answer: B

TRANSITION means a move or shift towards something new. The passage uses this word to convey how India is shifting towards sustainable energy. Thus, B is the right answer.

Deploy - to make use of. Discreet - careful and prudent in one's speech or actions. Plea - request.

Safeguard - protect.

87. Answer: B

INEVITABLE means bound or certain to happen; that which cannot be avoided. Its antonym would be AVOIDABLE; B is the right answer. Reckless - rash or careless. Prudent - careful. Illustrate - explain. Unique - being the only one of its kind.

88. Answer: D

The correct answer will be option D.

If we read the few lines of the passage, we can understand that India has announced to provide wheat in the global market amid the war between Ukraine and Russia (that caused stoppage of wheat supply globally), and now India has been affected by the wheat stocks to be diminished.

The supply in international market will result in a

decline in the initial estimate of wheat, owing to the early onset of a harsh summer.

Plug the gap (idiom) – provide for something that is lacking in a particular situation.

89. Answer: D

If we refer to the first paragraph of the passage, "It is just as well that the Centre on Tuesday announced an additional distribution of rice under PMGKY to the extent of the 5 mt wheat shortfall. Rice supplies under PMGKAY may increase to 18 million tonnes. This is a timely move." This shows that statement I is correct.

"Wheat stocks as on April 1 amounted to 19 mt, whereas a requirement of about 30 million tonnes of wheat was estimated for these two schemes — 21 million tonnes for NFSA and another 10 million tonnes for PMGKAY." This shows that statement II is correct.

"The buffer norm of 21 million tonnes for wheat and rice on April 1, should be re-examined in view of the rising welfare requirements." As given in the last paragraph, statement III is then incorrect. So, the answer is option D.

90. Answer: C

It is given in the first paragraph that – "But the bigger cause for concern is the disproportionate drop in the procurement this Rabi marketing season." No other statement satisfies the reason of concern, so, the answer is option C.

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91. Answer: E

It is given that the shortfall in stocks is a consequence of the extraordinary circumstances that have derailed wheat procurement this season. The government is taking steps to cover the shortage. Since procurement generally calculates to a third or more of wheat output, a drop of about six million tonnes owing to lower output would have been no cause for surprise. So, the correct word here should be 'recur' that means occur again periodically or repeatedly. The correct answer will be option E.

Halt – stop, come to rest, discontinue

Baffle – mystify, bewilder; restrain, obstruct

Drain – void, clear out, evacuate

92. Answer: B

If we refer to the last paragraph of the passage, "Bountiful monsoons in recent years have ensured that rice stocks (excluding unmilled paddy) are about 32 mt now, about two-and-a-half times the buffer norm for April. There is scope to raise the rice component in PDS this year." This shows that statement I is correct. "The Centre should desist from imposing export controls or stock limits, as that would dent the confidence of farmers and intermediaries." This shows that statement II is incorrect. "That said, premature policy signals to boost exports of staples need not be sent out." With this, we can identify that statement III is also incorrect. So, the answer is option B.

93. Answer: D

Espousal (n) – an act of adopting or supporting a cause, belief, or way of life; acceptance; support
Opp. – rejection, opposition

Beguiling (v) – captivating, attracting, endearing

94. Answer: B

Grudging (v) –gobbling, deploring, disliking.

Inclined - likely to do something.

95. Answer: C

With the removal of **the** most restrictions, (A)/ the probability of contact between(B)/ individuals has risen sharply(C)/.

Here, "most" is used as an adjective modifying the noun "restrictions".

Usage of "the" is redundant.

We use "the most" when we compare things. The given sentence is a general sentence and we are not comparing anything.

Example: This is **the most interesting book** I have ever read.

In the above sentence we are comparing the particular book with all other books.

96. Answer: A

Parts with error (I)-A, (III)-A

I). **Some** of the world's best Arabica (A)/ beans are grown on the(B)/ fertile land around Mount Kenya(C)/.

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III). Many Kenyans first **get**(A)/ a taste for coffee via instant sachets(B)/ made from cheap robusta beans(C)/.

In sentence (I) usage of **“any”** is incorrect grammatically. we use 'some' for affirmative sentences, and 'any' for questions or negative sentences. Sentence (I) is neither a negative sentence nor an interrogative sentence (question).

In sentence (III) usage of **“gets”** is incorrect grammatically. The Subject “Many Kenyans” is plural. Hence the base verb “get” should be used.

97. Answer: D

Parts with error - (I)-B, (II)-C

I). Azhdarchid pterosaurs are one type of pterosaur and **one of the distinguishing characteristics** about them is how big they were, especially their long necks.

II). Among the six metro areas studied, (A)/ Los Angeles had by far the worst levels of (B)/ crowding **and or as well as** the highest housing costs. (C)/.

In sentence (II) the noun following the phrase "one of the" is always a plural noun. Because we are choosing one among many. Example: Ram is **One of the best students** in the class. Among many best students in the class Ram is also one of them.

In sentence (III) usage of **“and”** is superfluous. Any one **“and or as well as”** is enough. Usage of both the words together doesn't make sense.

98. Answer: C

Part with error (II)-B

(II) People who have continued to exercise (A)/ during the pandemic are more likely to be **doing** (B)/ it for their mental health than for any other reason. (C)/.

In sentence (II) verb form **“done”** is incorrect. The sentence is present continuous. Hence the verb used should be **“doing”**.

99. Answer: E

All the given sentences are error free.

100. Answer: C

In sentence I, it is given that the Congress ended flutters regarding the election strategist Prashant Kishor's entry into India's oldest political party by announcing that he has refused the offer to join the party.

In sentence II, it is given that China has confirmed the first known human case of the H3N8 variant of avian flu, but health authorities say there is a low risk of widespread transmission among people.

After reading the sentences carefully, we can identify that 'declined' and 'confirmed'; similarly, 'possible' and 'widespread' should be interchanged. So, the answer is option C.

101. Answer: B

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In sentence I, it is given that students can consider doing the dual degree programmes physically through the two-shift system that is already popular and trending or from two different institutions based on their accessibility.

In sentence II, it is given that Union Health Minister Mansukh Mandaviya has said that the States and Union Territories will be asked to hold on and use the infrastructure put in place for treating COVID patients, so that they are readily available in case the numbers rise again.

After reading the sentences carefully, we can identify that 'retain' and 'consider'; similarly, 'vogue' and 'infrastructure' need to be interchanged. So, the answer is option B.

In vogue (idiom) –popular and fashionable
Retain (v) – hold on to, continue, maintain
Proximity (n) –nearness, accessibility

102. Answer: D

In sentence I, it is given that the DMRC chief on Tuesday said, metro's operational need takes only 2.5% of the total power requirement of the city, in the middle of tensions of power supply stoppage in Delhi.

In sentence II, it is given that the Khargone administration decided not to ease the curfew on Tuesday and requested people to celebrate EidulFitr and Akshaya Tritiya festivals at home in the violence-hit Madhya Pradesh city.

After reading the sentences carefully, we can identify that 'disruptions' and 'relaxing'; similarly,

'accounts' and 'administration' need to be interchanged. So, the answer is option D.
Account for (phrasal verb) – to make up or form (a part of something)

103. Answer: D

In sentence I, it is given that the State of Tamil Nadu has been witnessing a conflict between the elected government and the State Governor on the question of giving validation to the National Eligibility cum Entrance Test (NEET) Bill (linked to an all India premedical entrance test) passed by the State Assembly.

In sentence II, it is given that West Bengal CM Mamata Banerjee criticized PM Narendra Modi, who prompted states to reduce VAT in "national interest" during a virtual meeting with chief ministers amid rising Fuel Prices across the country.

After reading the sentences carefully, we can identify that 'Confrontation' and 'interaction'; similarly, 'elected' and 'urged' should be interchanged. So, the answer is option D.

Confrontation – a hostile or argumentative situation or meeting between opposing parties; conflict, collision

Interaction – communication or direct involvement with someone or something; association, communion

Urge (v) – prompt, request

Hit out (phrasal verb) – denounce, lash out at, criticize

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104. Answer: C

The sentences discuss the five-member team and the members and their report and findings on the matter. However, the third sentence talks about the same incident but with a different angle to it that now the SC has ordered a CBI enquiry into the matter.

So, (c) carries a different theme.

105. Answer: D

The sentences are all discussing the football World Cup going on in Qatar but one of these sentences is talking about a different tournament which is the Federation Cup Athletics. So, this sentence is the odd one out.

Therefore, the best is mark option (d) as the answer.

106. Answer: D

The statements other than (d) all talk about the investment in the education sector. But, statement in (d) talks about adapting to in-person learning which is a different concept being discussed.

Therefore, the best is to go with option (d).

107. Answer: D

High inflation adversely affects the poor, even making necessities unaffordable in certain situations; **therefore**, individuals form

expectations about how prices will behave in the future to take precautions.

In the first sentence, it is given that high inflation affects the poor in a very unfavourable way, even that it makes essentials hard to attain in certain situations. In the second sentence, a conclusion has been given that individuals anticipate the increase or decrease in prices in order to take precautions. Only 'therefore' is correct as II is the consequence of statement I. So, the answer will be option D.

Subsequently – eventually, afterwards

During the time – at the same time, while, meanwhile

108. Answer: B

To be sure, LIC's 1.3 million agents (as of December 2021) are not an endangered species; **in fact**, they're the largest insurance sales force in the country by far, accounting for 55% of the total number of agents in the country. / LIC's 1.3 million agents (as of December 2021) are not an endangered species for sure; **in fact**, they're the largest insurance sales force in the country by far, accounting for 55% of the total number of agents in the country.

To be sure, LIC's 1.3 million agents (as of December 2021) are not an endangered species; **instead**, they're the largest insurance sales force in the country by far, accounting for 55% of the total number of agents in the country. / Surely,

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LIC's 1.3 million agents (as of December 2021) are not an endangered species; **instead**, they're the largest insurance sales force in the country by far, accounting for 55% of the total number of agents in the country.

Instead, and in fact is used to show something else rather than something that is previously said or done. Here, in the first sentence, it is given that LIC 1.3 million agents) are not an endangered species, whereas in the second sentence, it is given that rather than this, they are the largest insurance sales force in the country by far. So, the correct answer is option B.

109. Answer: D

India has recorded the highest ever shipments in April that helped exports remain strong **but** high value of imports caused the trade deficit to widen slightly over the previous month because of the prolonged Russia-Ukraine conflict.

Both the sentences show contradiction to each other, for this we use 'but'. 'So' is used to show a conclusion to something whereas 'still' is used when something continues up to a time in the past, present or future. So, the answer will be option D.

110. Answer: B

The complete sentences after being matched are:

A-E ⇒ What is worse even if come to know of it we cannot do anything about it.

C-D ⇒ Sunak, who is the son-in-law of Infosys founder NR Narayana Murthy, also happens to be the first British Asian and Hindu Prime Minister of the UK.

Parts B and F do not match with each other and can be ruled out.

Therefore, the best would be to go with option (b) as the answer.

111. Answer: A

The complete sentences after being matched are:

B-E ⇒ There may or may not be serious methodological issues, but dubbing the index as an attempt to taint India's image smacks of self-righteousness.

C-D ⇒ They resort to social media and trend hashtags boycotting the new releases.

A-F could have been correct if there were no grammatical issues in the same. The correct sentence would have been: Low collection means lesser films and **lesser** employment.

The best would hence, be option (a).

112. Answer: E

The complete sentences after being matched are:

A-D ⇒ Initial investigation has proved that the drug reached Indian shores from Afghanistan via Pakistan.

B-E ⇒ Hyderabad got choked because of rains and the attendant problems.

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C-F ⇒ Going global by enabling students to be global citizens is emphasised multiple times in the National Education Policy 2020.

The best would be to go with the fifth option.

113. Answer: A

Accretion means a thing formed or added by gradual growth or increase.

114. Answer: B

Wholesale means done on a large scale; extensive.

115. Answer: E

All the given options fit into the blanks appropriately as all four words mean the same i.e. so as to give the impression of having a certain quality; apparently.

116. Answer: B

The given line tells us that the recession has been getting worse and complicated due to the pandemic. So, the word **pacify** which means “making better or reducing the severity of something is a misfit over there.” That place needs a negative tone word.

Inflamed is grammatically correct but too extreme. It is used to define anger in most cases. So, this gets eliminated. **Worsened** can be taken as it fits the context aptly. **Intensify** is grammatically incorrect. **Assuaged** means to make better which is opposite the context.

So, the best would be to go with option (b) as the answer

117. Answer: A

The previous line of the said word talks positively by mentioning India is growing fastest. And then the said statement begins with ‘**but**’ which means “that the tone would take a reverse.” We need a negative word for the second place which makes us cancel the second and the third options. The word **backward** is grammatically incorrect and so is **under**.

The most appropriate word should hence, be option (a) **below**.

118. Answer: E

Latent means “untapped or something that has still not been utilised.” This words in the options (a) and (b) also mean the same. The third and the fourth options are irrelevant.

The correct answer should hence, be option (e).

119. Answer: A

The sentence says ‘**even in the...**’ which means “circumstances that are not ideal are being hinted at.”

The given word hence, makes the sentence incorrect. The correct meaning would be reflected through the word **adverse** which means “unfavourable.” India is growing even in the unfavourable circumstances.

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So, eliminating all other options, we can mark option (a) as the correct answer.

120. Answer: D

The word **intangible** makes the sentence ambiguous and needs a change.

The sentence talks about the basic nature of the Indian economy that naturally hints towards the capacity to grow.

To explain this, the adjective **inherent** must be used for potential.

Therefore, the best would be to mark option (d) as the answer.

General Awareness

121. Answer: C

Prime Minister, **Shri Narendra Modi inaugurated and laid the foundation stone for multiple development projects worth more than Rs 13,000 crores in Varanasi.**

The Prime Minister also visited **Banas Kashi Sankul**, a milk processing unit of Banaskantha District Cooperative Milk Producers Union Ltd built at UPSIDA Agro Park, Karkhiyaon, **Varanasi** and interacted with cow beneficiaries. PM Modi also handed out employment letters and GI-authorized user certificates. The development projects cater to important sectors such as road, rail, aviation, tourism, education, health, drinking water, urban development, and sanitation.

Background

To further enhance road connectivity in Varanasi, the Prime Minister inaugurated and laid the foundation stone of multiple road projects including four laning of Ghargra-Bridge-Varanasi section of NH-233; four laning of Sultanpur-Varanasi section of NH-56, Package-1; six laning

of phase-1 of Varanasi-Aurangabad section of NH-19; four laning of Package-1 Varanasi-Hanumana section on NH-35; and ROB on Varanasi- Jaunpur rail section near Babatpur. He also laid the foundation stone for the construction of the Varanasi-Ranchi-Kolkata Expressway Package-1.

122. Answer: A

Amazon Pay, the financial technology division of e-commerce giant Amazon, has secured the esteemed **payment aggregator (PA) license** from the **Reserve Bank of India (RBI)**, marking a significant milestone in its operations.

The regulatory approval permits the payments platform to function as a payment aggregator, empowering it to facilitate **e-commerce transactions through its application.**

The fintech firm joins a list of companies that the central bank has granted authorization to operate as payment aggregators (PA) in **2023.**

In addition to the PA license, Amazon Pay already holds a Prepaid Payment Instruments

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(PPI) license, enabling it to operate its wallet services, including **Amazon Pay balance: Money**, as outlined in RBI documentation.

What are Payment Aggregators (PAs)?

PAs are entities defined by the RBI that facilitate **e-commerce sites and merchants** to accept various payment instruments from customers for completing their payment obligations.

They enable merchants to connect with acquirers, receive payments from customers, pool them, and transfer them to the merchants after a specific period.

Intermediaries in Payment Transactions:

PAs act as intermediaries between the **merchant** and the **customer in payment transactions**.

They play a crucial role in streamlining the payment process for merchants, eliminating the need for them to create separate payment integration systems.

Role of Payment Aggregator License:

A payment aggregator license allows a company to operate as an intermediary between **merchants** and **payment processors or banks**.

This license enables the aggregator to accept payments on behalf of multiple merchants, consolidate them, and distribute the funds to the respective merchants.

Utilization in Online Marketplaces:

The payment aggregator model is commonly utilized by **businesses operating online marketplaces or platforms** with multiple sellers offering goods or services.

It provides a convenient and **efficient payment solution** for both merchants and customers within the marketplace ecosystem.

Regulatory Compliance and Standards:

Obtaining a payment aggregator license ensures regulatory compliance and adherence to financial and security standards set by relevant authorities.

Recent News:

In Feb 2024, two fintech startups, **Decentro** and **Juspay**, and **enterprise software-as-a-service (SaaS) firm Zoho** received final authorization from the RBI for payment aggregator (PA) licenses.

123. Answer: A

The **World Gold Council** has appointed **Sachin Jain** as its **new Chief Executive Officer (CEO)**, in **India**, who will take up the role in **March 2024**.

Jain will succeed **Somasundaram PR**, who will continue in his present job and duties till Jain joins to facilitate a smooth transfer.

Somasundaram will continue to work with the World Gold Council as an **advisor** on the establishment of a **self-regulatory organization (SRO)**, which is a critical project for the Indian gold sector.

About Sachin Jain:

Sachin joins from **De Beers** where he has held several senior roles for the past 13 years.

As Managing Director of De Beers India, he has led the **De Beers Forevermark business in India** and the Middle East.

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He has over two decades of rich experience and understanding of the Indian consumer.

Previously, Sachin has held senior positions for **De Beers, Lladro, Swatch Group and Benetton.**

About World Gold Council:

Founded: 1987

Headquarters: London, United Kingdom

President: Kelvin Dushnisky

CEO: David Tait

The World Gold Council is the market development organization for the gold industry.

124. Answer: D

India's first septic tank/manhole cleaning robot, offering an end-to-end solution to **eliminate manual scavenging**, is strengthening the **Swachhata Abhiyan** in different corners of the country.

The technology called **HomosepAtom** developed by the startup incubated in the **Department of Science and Technology (DST)-Technology Business Incubator (TBI) of IIT Madras**, solves **manual cleaning methods** and transforms them into robotic cleaning methods.

It has reached **16 cities** in different parts of India and empowers extensive blade cleanings, solid waste desilting, suction and storage at one device; thereby reducing the cost of owning multiple assets and promoting robotic cleaning in sewers.

Key Highlights:

DST-Technology Business Incubators (TBIs) are established in Academic /Technical /R&D Institutions as part of the NIDHI program to support and nurture knowledge-driven innovative start-ups into successful enterprises.

The startup called **Solinas** developed this **affordable robotic solution integrated with Artificial Intelligence (AI) to inspect, clean, and manage confined space for sanitation purposes.**

It helped clean up manhole blockages and reduced sewer overflows in Madurai.

The application of Homosep Atom was also extended to the intricate lanes of Chennai's densely populated areas.

Targeting septic tanks associated with large apartments, housing boards, and individual houses, this process enabled Municipalities to promptly and efficiently clean, clear, and transport waste to treatment plants. Besides, sanitary workers were empowered with manhole cleaning robots that helped them clean the manholes from outside and avoid going inside the toxic environment, thus providing dignity to the sanitary workers.

Solinas is a **deep-tech and climate tech startup** born out of IIT Madras, founded with the intent to solve the challenges that revolutionize the water and sanitation sector and improve climatic conditions.

The startup specializes in developing miniature robots, including India's 1st 90mm water robot and 120mm sewer robot, capable of navigating

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through pipelines below 100mm to address contamination challenges in water-sewer pipelines.

125. Answer: D

Insurtech unicorn **Acko** has elevated its chief underwriting officer, **Animesh Das**, to the new **Chief Executive Officer (CEO)** of its subsidiary entity—**ACKO General Insurance**—as **Sanjeev Srinivasan** takes the board role.

Varun Dua will continue as the **CEO of Acko Technologies**, the parent company of Acko General Insurance.

Srinivasan, the former MD and CEO at **Bharti Axa General Insurance**, joined the **General Atlantic-backed venture in 2021** as the managing director and CEO of the subsidiary unit.

During his tenure, the company successfully launched its health, life and travel insurance portfolios, with Gross Written Premium (GWP) doubling in the **last two years**.

Meanwhile, **Das**, whose appointment is subject to the board's approval, has been a part of Acko's core members team for the **past six years**.

Founded in 2016 by Varun Dua, Acko started in the direct-to-consumer (D2C) auto insurance space.

In **March 2023**, the firm entered the retail health insurance segment and acquired **Parentlane** to expand into the health business.

It holds tie-ups with **PhonePe** and **MyGate** to directly offer comprehensive insurance products

to consumers on their platform besides partnerships with over **50 platforms**, including **Oyo, redBus,**

Zomato, HDB Financial Services and Urban Company, to offer embedded insurance.

About Acko General Insurance:

Acko General Insurance is a private sector general insurance company in India. Founded in **November 2016**, the company received its license from the Insurance Regulatory and Development Authority of India in **September 2017**.

Founder: Varun Dua

Founded: 3 November 2016

Headquarters: Bengaluru, Karnataka

126. Answer: D

A school in **Thiruvananthapuram, Kerala** has unveiled a **groundbreaking innovation in education** with the introduction of **India's first Generative Artificial Intelligence(AI) teacher robot named 'Iris'**.

Developed in collaboration with **Makerlabs Edutech**, Iris aims to transform traditional teaching methods through personalized learning experiences for students.

Iris has been deployed at **KTCT Higher Secondary School, Thiruvananthapuram**, marking a significant advancement in educational technology within the region.

Built under the **Atal Tinkering Lab (ATL) project** initiated by **NITI Aayog**, this AI teacher robot, Iris,

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boasts a range of features aimed at revolutionizing traditional teaching methods.

The robot can teach subjects from nursery to

Class 12.

The robot currently speaks **three languages –**

English, Hindi and

Iris is created by **Maker Labs**, further

demonstrating India's capacity for innovation in the field of educational technology.

Recent News:

In Aug 2023, India's first AI school, **Santhigiri**

Vidyabhavan, was launched in Kerala.

About Kerala:

Capital: Thiruvananthapuram

Chief Minister: Pinarayi Vijayan

Governor: Arif Mohammad Khan

National Parks: Periyar National Park,

Mathikettan National Park, Eravikulam National

Park, Silent Valley National Park, Indira Gandhi

National Park

127. Answer: E

The **Reserve Bank of India (RBI)** bought **8.7 tonnes of gold** in January 2024, making it the **largest purchase** by the central bank since July 2022.

According to the **World Gold Council data**, the RBI's gold holding has climbed to **812.3 tonnes** in January, from 803.58 tonnes in December 2023.

Purpose of Gold Purchase: The central bank is diversifying its forex reserves and hedging

against foreign currency risks by adding gold to its reserves.

Key Highlights:

History of RBI's Gold Purchases: RBI began buying gold in **2018** to bolster its reserves.

Notably, during the global financial crisis in 2009, it purchased **200 tonnes of gold**.

Gold Purchase in the Current Financial Year: In the first 10 months of the current financial year, the RBI has added nearly **17.7 tonnes** of gold to its reserves.

International Gold Purchases: **Turkey, China** and **Kazakhstan** also bought a significant volume of yellow metal in January.

Turkey bought **11.8 tonnes of gold**, China purchased 10 tonnes and Kazakhstan bought 6.2 tonnes.

Reason for Central Banks' Gold Purchases:

Central banks worldwide have been aggressively adding gold to their forex reserves over the past 5 years to hedge against foreign currency risks.

Government Notification: The government issued a notification allowing the RBI to import gold without paying levies, which typically include a **15% import duty**, including a **5% agriculture infrastructure development cess**.

About World Gold Council (WGC):

Established: 1987

Headquarters: London, United Kingdom

The World Gold Council is the market development organization for the gold industry.

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It works across all parts of the industry, from gold mining to investment, to stimulate and sustain demand for gold.

It was established to promote the use of and demand for gold through marketing, research, and lobbying.

WGC was the creator of the **first gold exchange-traded fund**.

Recent News:

In March 2024, The Indian government announced that gold imported by the Reserve Bank of India (RBI) will be **exempted from import duty and Agriculture Infrastructure Development Cess (AIDC)**.

About RBI:

Established: 1 April 1935

Headquarters: Mumbai, Maharashtra, India

Governor: Shaktikanta Das

128. Answer: B

Former member of the National Commission for Scheduled Castes and Scheduled Tribes and Prominent Buddhist Monk of Ladakh popularly known as **Lama Lobzang** passed away in New Delhi at the age of 94.

About Lama Lobzang:

Lama Lobzang, a distinguished tribal leader & served in the **National Commission for Scheduled Castes and Scheduled Tribes** for a total of 19 years since 1984.

He was reappointed as a member of the Commission for two terms after its constitutional

amendment, from **1995 to 1998** and **1998 to 2001**,

He later served as a member of the National Commission for Scheduled Tribes from 2004 to 2007 before retiring from public office.

During his six decades of public service, Lama Lobzang contributed significantly to the health sector.

He facilitated patients for medical treatments at AIIMS and organized free medical camps in Leh Ladakh.

He pulled doctors from prestigious medical institutes like AIIMS Delhi and Safdarjung Hospital to provide medical care to needy people in Ladakh.

He also served as the **president** of several Buddhist Organisations including the **International Buddhist Conference** and the **World Fellowship of Buddhists**.

About the National Commission for Scheduled Castes:

Headquarters: New Delhi, Delhi

Chairman: Kishor Makwana

The National Commission for Scheduled Castes is an Indian constitutional body under the jurisdiction of the **Ministry of Social Justice and Empowerment, Government of India**.

Article 338 of the Indian constitution deals with the National Commission for Scheduled Castes.

Article 338 A deals with the National Commission for Scheduled tribes.

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129. Answer: D

In consonance with the established partnership between India and the United States (US), a bilateral tri-service Humanitarian Assistance and Disaster Relief (HADR) Exercise between both countries, **Tiger Triumph – 24**, is scheduled on the Eastern Seaboard from **18 to 31 March 2024**.

Aim: To develop interoperability for conducting HADR operations and **refine Standard Operating Procedures (SOPs)** to enable rapid and smooth coordination between the forces of both countries.

Participants:

Indian Navy Ships with integral helicopters and landing crafts embarked, **Indian Navy aircraft, Indian Army personnel and vehicles, Indian Air Force aircraft and helicopters**, and the **Rapid Action Medical Team (RAMT)** will participate from the Indian side.

The US will be represented by US Navy Ships with embarked troops of the **US Marine Corps and US Army**.

Phases of the Exercise:

Harbor Phase: Scheduled from 18 to 25 March 2024, involving Training Visits, Subject Matter Expert Exchanges, Sports Events, and Social interactions between personnel from both navies.

Sea Phase: Following the Harbour Phase, ships with embarked troops will sail for the Sea Phase, focusing on Maritime, Amphibious, and HADR operations as per injected situations.

About Ministry of Defence:

Defence Minister: Rajnath Singh

Minister of State: Ajay Bhatt

Defence Secretary: Giridhar Aramane

130. Answer: B

The 4th edition of the Shanghai Cooperation Organisation (SCO) Startup Forum was organized in **New Delhi**.

The initiative focused on broadening startup interactions among the SCO Member States, fostering an environment conducive to innovation, promoting job creation, and inspiring young talent to develop innovative solutions.

Key Highlights :

The Shanghai Cooperation Organisation Startup Forum is a platform for the stakeholders from the startup ecosystems from all SCO Member States to interact and collaborate.

It **aims** to create multilateral cooperation and engagement for startups among the SCO Member States.

It will **empower the local startup ecosystems** in the Member States.

Going forward, India will host the second meeting of the SWG in **November 2024** and SCO Startup Forum 5.0 in January 2025.

The first Meeting of the SCO Special Working Group on Startups and Innovation (SWG), permanently chaired by **India**, was organized on the **theme 'Growing from Roots' in 2023**.

25 representatives from the 9 SCO Member States participated in the meeting and presented their respective startup ecosystems and

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prospective areas of collaboration related to the agriculture and animal husbandry sectors covered in the theme.

About SCO:

The Shanghai Cooperation Organization (SCO) is an **intergovernmental organization** founded in Shanghai on 15 June 2001.

The SCO currently comprises **nine Member States** (China, India, Kazakhstan, Kyrgyzstan, Russia, Pakistan, Tajikistan and Uzbekistan, Iran).

131. Answer: D

The **World Inequality Lab (WIL) and Sciences Po's Center for Research on Social Inequalities (CRIS)** have joined forces for the **first edition of the Global Inequality Research Award (or GiRA)**, which aims to **recognize every two years researchers from all disciplines who have made a significant contribution to the understanding of global inequalities**.

GiRA wants to acknowledge leading scholarship in the area of global inequality understood from two major perspectives:

First, the perspective of inequality research is being conducted in all corners of the world.

Second, the perspective of inequality is a complex phenomenon that requires light from all angles to be fully understood and ultimately mitigated.

The **2024 GiRA Prize** is jointly awarded to **Bina Argawal and James K. Boyce** for their

groundbreaking work in the field of social and environmental inequalities.

Bina Agarwal (University of Manchester), an economist, is the author of pioneering work on gender inequalities, environmental governance, ecofeminism and environmental inequalities.

James K. Boyce (University of Massachusetts Amherst), an economist, is the author of a seminal work on the relationship between social inequality and environmental degradation and has made a major contribution to structuring the field of environmental political economy.

The two laureates will be invited to receive their awards and present an overview of their work at conferences in Paris in the fall and spring of 2024, organized in conjunction with Sciences Po's Social-Ecological Transitions (SET) initiative.

132. Answer: C

The **cVIGIL app of the Election Commission of India has become an effective tool in the hands of people to flag election code violations.**

Since the announcement of General Elections 2024, over 79,000 complaints have been received.

Over 99% of complaints have been resolved and close to 89% of these complaints have been resolved within 100 minutes.

Speed and transparency are the cornerstones of the cVIGIL app.

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More than 58,500 complaints (73% of the total) received are against illegal hoardings and banners.

About cVIGIL

cVIGIL app marks a significant leap forward in electoral oversight and reducing campaign clutter. It may be recalled that in the press conference for the announcement of the General Elections 2024, Chief Election Commissioner Shri Rajiv Kumar had urged citizens to be vigilant and use the app to report model code of conduct violations and distribution of any kind of inducements to voters.

cVigil is a user-friendly and easy-to-operate application, that connects vigilant citizens with the District Control Room, Returning Officer and Flying Squads Teams.

Users capture audio, photos, or videos in real-time, and a “100-minute” countdown for time-bound responses to complaints is ensured.

The app is one of the armories of Apps built by the Commission to leverage technology and facilitate voters and political parties.

133. Answer: C

Senior bureaucrat Pradip Kumar Tripathi has been appointed as the **Lokpal Secretary** as part of a secretary-level reshuffle effected by the Centre.

Tripathi, a 1987-batch Indian Administrative Service officer (IAS), is currently **Secretary (Coordination)** in the **Cabinet Secretariat**.

He has been appointed as Secretary to the Lokpal till the date of his superannuation (June 30, 2024) and thereafter on contract basis for a period of 2 years beyond the date of his superannuation on

usual terms and conditions applicable to re-employed central government officers.

Border Management Secretary Raj Kumar Goyal has been appointed as **Secretary, Department of Justice under the Ministry of Law & Justice**.

Rajendra Kumar, Director General of Employees' State Insurance Corporation (ESIC), will be the **Border Management Secretary in place of Goyal**.

Other Appointments:

Amit Yadav: New Delhi Municipal Council (NDMC) chairperson Amit Yadav has been named as **Officer on Special Duty in the Department of Social Justice & Empowerment**.

Rakesh Ranjan: Rakesh Ranjan, currently serving as Special Secretary in the Department of Agriculture and Farmers Welfare, has been appointed as **Chairman of the Staff Selection Commission (SSC)**.

About Lokpal :

Established : 19 March 2019

Headquarters : New Delhi, Delhi, India

Chairperson : Ajay Manikrao Khanwilkar

Motto : Do not be greedy for anyone's wealth

A Lokpal is an **anti-corruption authority or body of ombudsman** who represents the public interest in the Republic of India.

The term “Lokpal” coined by L.M.Singhvi in 1963.

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134. Answer: C

Foreign Portfolio Investments (FPIs) have turned cautious as they pulled out **Rs. 325 crore from Indian equities** in the first week of April 2024 owing to relatively high valuations and the upcoming general elections.

The net outflow came after a staggering investment of **Rs. 35,000 crore in March** and **Rs. 1,539 crore in February 2024**.

The US 10-year yield has spiked to **4.4%**, potentially impacting FPI investment flows into India in the near term.

Key Highlights:

Indian government securities (G-Sec) 10-year yield standing at **7.1%** and the US 10-year at **4.3%** present a compelling case for FPIs.

Moreover, FPIs have been pumping money into the debt markets for the past few months, driven by the upcoming inclusion of Indian government bonds in the JP Morgan Index.

They invested **Rs. 22,419 crore** in February 2024, **Rs. 19,836 crore** and **Rs. 18,302 crore** in January 2024.

JP Morgan Chase & Co announced that it would add Indian government bonds to its benchmark emerging market index from June 2024.

This landmark inclusion is anticipated to benefit India by attracting around **\$20-40 billion** in the subsequent 18 to 24 months.

In terms of sectors, FPIs have turned into big sellers in the FMCG segment and buyers in telecom and realty.

Overall, the total inflow for this year so far stood at **more than Rs. 10,500 crore** in equities and over **Rs. 57,000 crore** in the debt market.

What is foreign portfolio investment (FPI)?

Foreign Portfolio Investment (FPI) refers to the investment made by foreign individuals, institutions, or investors in the financial assets of another country.

These financial assets include stocks, bonds, money market instruments, and other securities. FPI is a crucial component of international capital flows and plays a significant role in global financial markets.

Types of Investments :

FPI can take various forms, including **equity investments (stocks)**, **debt investments (bonds)**, and **investments** in other financial instruments like **derivatives and exchange-traded funds (ETFs)**.

135. Answer: B

North Atlantic Treaty Organization (NATO)

Foreign Ministers gathered at NATO

Headquarters, Brussels, Belgium to mark **75**

years since the signing of the Washington Treaty.

NATO approved a proposal for a **100-billion-euro, 5-year fund to Ukraine.**

Since 1949, the Alliance has ensured peace, democracy and prosperity for its members, now

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counting 32 Allies and one billion people on both sides of the Atlantic.

This year's NATO Day comes just weeks after **Sweden** joined as the **thirty-second member of the Alliance**.

About Washington Treaty :

The Washington Treaty, or North Atlantic Treaty, forms the basis of the North Atlantic Treaty Organization (NATO).

It was signed in Washington D.C. in **1949**, by **12 founding members**.

The Treaty derives its authority from **Article 51 of the United Nations Charter**, which reaffirms the inherent right of independent states to individual or collective defence.

Collective defence is at the heart of the treaty and is enshrined in Article 5.

It commits members to protect each other and sets a spirit of solidarity within the Alliance.

About NATO :

Headquarter: Brussels, Belgium

Secretary General Jens Stoltenberg

It is a **military alliance** established by the North Atlantic Treaty.

It currently has **32 alliance members** from **North America and Europe**.

Its fundamental goal is to safeguard the Allies' freedom and security through political and military means.

It is a system of collective defence where independent member states agree on mutual defence in case of an attack by an external party.

136. Answer: B

Manoj Panda, formerly the director at the Institute of Economic Growth, has been appointed as a **full-time member of the 16th Finance Commission** by the Government of India (GoI).

The 16th Finance Commission is responsible for formulating recommendations on the revenue-sharing formula between the central government and states for the 5 years starting from **April 2026**.

Panda's tenure as a member of the Commission will last from the date of assuming office until either the submission of the Commission's report or **October 31, 2025**, whichever comes earlier.

He replaces **Niranjana Rajadhyaksha**, Executive Director at Artha Global, who resigned from his position as a member of the Commission due to unforeseen personal circumstances.

About Manoj Panda:

Manoj Panda has an extensive background in economics, having served as the **Director of the Centre for Economic and Social Studies (CESS)** in Hyderabad, as well as holding positions as a **Professor and Associate Professor at the Indira Gandhi Institute of Development Research (IGIDR)** in Mumbai.

He has also contributed to economic research as an economist and senior economist at the National Council of Applied Economic Research in New Delhi.

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The 16th Finance Commission held its first meeting under the Chairmanship of **Arvind Panagariya** to discuss its terms of reference on **February 14, 2024**.

Other full-time members of the Commission include **Ajay Narayan Jha**, who served on the 15th Finance Commission and was a former secretary of Expenditure, as well as **Annie George Mathew**, a former special secretary of Expenditure.

Soumya Kanti Ghosh, the group chief economic advisor of the State Bank of India, was appointed as a part-time member of the Commission.

About Finance Commission:

The Finance Commission is a **constitutionally-mandated body** established **once every 5 years** to devise a formula for distributing net tax proceeds between the Centre and the states as well as among states and local bodies.

Currently, India shares **41% of federal taxes** with states as recommended by the 15th panel.

137. Answer: B

According to the **Central Electricity Authority (CEA)**, **Uttar Pradesh** has emerged as the leading state in terms of adding transmission lines by state transmission utilities in FY24.

UPPTCL's Remarkable Achievement

In FY24, the **Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL)** outperformed other state utilities by adding 1,460 circuit kilometers

(ckm) of transmission lines rated at 220kV or higher.

Gujarat Ranks Second

The **Gujarat Energy Transmission Corporation Ltd (GETCO)** followed UPPTCL with an addition of 898 ckm by the end of FY24.

Contribution to Overall Increase

UPPTCL's contribution accounted for slightly more than 20 percent of the overall increase in transmission lines from the state sector. Gujarat's share stood at 13 percent.

Other Notable States

Following **Gujarat**, **Tamil Nadu**, **Andhra Pradesh**, and **Bihar** ranked next in the addition of transmission lines.

Role of the Central Electricity Authority

The CEA, originally constituted under Section 3(1) of the repealed Electricity (Supply) Act, 1948, now functions under Section 70 of the Electricity Act, 2003, overseeing and coordinating the transmission infrastructure across the country.

138. Answer: D

Defence Minister **Rajnath Singh** stated that **Siachen**, the world's highest battlefield, is no ordinary land as it represents the sacrifice, valour and determination of Indian soldiers who serve in extremely harsh terrain and inclement weather to **protect the motherland**.

Interacting with the Armed Forces personnel deployed at **Kumar Post**, one of the world's most inhospitable locations, **Singh** thanked them for

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placing the call of duty above everything while safeguarding the country's sovereignty and perseverance.

The Indian Army marked Siachen Day on April 13 as 'Operation Meghdoot' — launched on April 13, 1984 — completed 40 years.

Remembering the feat which is considered unparalleled in the history of high-altitude warfare, Singh stated that it remains a golden chapter in the history of the Indian Armed Forces.

Accompanied by Chief of the Army Staff General Manoj Pande, Singh stated that he believes that the festivals should first be celebrated by and with the protectors of the country.

139. Answer: E

The Indian Army is undertaking two projects worth over Rs 6,800 crore to develop indigenous Very Short Range Air Defence (VSHORAD) systems.

These shoulder-fired missile systems are intended to counter aerial threats along the borders with China and Pakistan.

The Army plans to procure over 500 launchers and around 3,000 missiles through these indigenous projects.

Key Highlights:

Laser Beam Riding VSHORADS Project: The first project, valued at Rs 4,800 crore, is focused on developing a laser beam riding VSHORADS.

This project involves collaboration between a Hyderabad-based defense Public Sector

Undertaking (PSU) and a private sector firm from Pune.

The system will be designed to protect against enemy drones, fighter aircraft, and helicopters.

Allocation of Resources: The Army will be the lead service for this project, with the Indian Air Force also set to receive a portion of the 1,200 missiles and 200 launchers being developed.

DRDO's Infra-Red Homing VSHORADS: The Defence Research and Development

Organisation (DRDO) is leading the development of an infra-red homing-based Very Short Range Air Defence (VSHORADS) system.

DRDO is working with its development and production partners, Adani Defence and I-Comm, to create this system.

The DRDO has conducted tests with a tripod-mounted version and is now focused on miniaturizing the system for shoulder-launched use.

About VSHORAD Systems:

VSHORAD systems are essential for providing layered air defense against low-flying aircraft, helicopters, and drones.

The Indian military is working to replace its aging VSHORAD inventory, mainly consisting of the Igla-1M system, which was inducted in 1989 and was set for de-induction in 2013.

The versatility of VSHORAD systems has been demonstrated in recent conflicts, such as the Russia-Ukraine war.

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Emergency Procurement and Igla-S Revival: To address immediate shortages, the Indian Army and Air Force have procured 96 Russian Igla launchers under Emergency Procurement powers.

The first batch of 48 launchers has been delivered, with the rest expected soon.

There is a proposal to revive a previous deal for the Russian Igla-S system, which was halted more than 5 years ago.

Make in India Initiative: The development of indigenous VSHORAD systems aligns with the Indian government's "Make in India" initiative, aimed at **promoting self-reliance in defense manufacturing**.

Project stakeholders are expected to meet soon to discuss the implementation of these projects within the Make in India framework.

Recent News :

In April 2024, The Indian Army and Indian Air Force (IAF) celebrated the **40th anniversary of Operation Meghdoot (Cloud Messenger)**, which commenced on **April 13, 1984**.

About the Indian Army:

Chief of Defence Staff: General Anil Chauhan
Chief of the Army Staff: General Manoj Pande

About DRDO :

Established : 1958

Headquarters : New Delhi, Delhi

Chairman : Samir V Kamat

The DRDO is the premier agency under the Department of Defence Research and

Development in the Ministry of Defence of the Government of India.

140. Answer: A

India was the world's fourth-largest military spender in 2023, making an expenditure of \$83.6 billion to modernise a range of weapons and combat systems.

The United States (US), China, and Russia were the top three spenders in that order, **according to the Stockholm International Peace Research Institute (Sipri)**. India's military spending saw a **4.2 percent** increase compared to 2022.

This growth reflects India's strategic focus on enhancing its defence capabilities and bolstering military infrastructure, particularly along the China border following the Ladakh standoff that began in May 2020.

India's modernisation efforts include investments in fighter jets, helicopters, warships, tanks, artillery guns, rockets, missiles, unmanned capabilities, and other combat systems.

India vs China

The Sipri report comes at a time when India and China have been locked in a standoff along the Line of Actual Control (LAC) in eastern Ladakh since May 2020.

The two countries have conducted 21 rounds of military talks to address the border dispute.

India allocated Rs 6.21 trillion for defence spending in the interim Budget for 2024-25, marginally lower than the previous year's revised

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estimates but 4.72 percent higher than the budget estimates for 2023-24.

This year's defence budget represents 1.89 percent of India's projected gross domestic product (GDP) for 2024-25

Global military spending

Globally, total military expenditure reached \$2443 billion in 2023, marking a 6.8 percent increase from 2022.

The report attributed this surge to ongoing conflicts, rising tensions, and global insecurity. The US saw a 2.3 percent increase in military spending, reaching \$916 billion, while Russia's military expenditure surged by 24 percent to an estimated \$109 billion amid the war with Ukraine.

Top 10 countries with highest military spending in 2023

United States: \$916 billion

China: \$296 billion (estimated)

Russia: \$109 billion (estimated)

India: \$83.6 billion

Saudi Arabia: \$75.8 billion (estimated)

United Kingdom: \$74.9 billion

Germany: \$66.8 billion

Ukraine: \$64.8 billion

France: \$61.3 billion

Japan: \$50.32 billion

141. Answer: C

Indian Space Research Organisation (ISRO)

Chairman S. Somanath announced India's pledge to achieve debris-free space missions by 2030 at

the 42nd Inter-Agency Space Debris Coordination Committee (IADC) annual meet.

India's commitment aligns with global efforts aimed at ensuring the sustainability of space exploration and reducing space debris.

Key Highlights :

Objective of Space Exploration Initiative: ISRO has a clearly defined plan for space exploration, with the primary goal of achieving debris-free space missions by 2030.

Current Status: Presently, India has **54 spacecraft in orbit**, along with numerous non-functional objects contributing to space debris.

Deorbiting Efforts: ISRO has undertaken efforts to deorbit several old satellites and the fourth stage of PSLV rockets as part of its mission to achieve zero orbital debris.

Future Plans: India aims to establish its space station, named '**Bharatiya Antriksh Station**,' by the **year 2035**, indicating its ambitious goals in space exploration and infrastructure development.

Recent News :

In April 2024, ISRO achieved a breakthrough in rocket engine technology with the development of a **lightweight Carbon-Carbon (C-C) nozzle for rocket engines**.

About ISRO :

Established: 15 August 1969

Headquarters: Bangalore, Karnataka, India

Chairman: S. Somanath

142. Answer: D

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The National Bank for Agriculture and Rural Development (NABARD) unveiled its Climate Strategy 2030 document on Earth Day to address India's growing need for green financing.

The Climate Strategy 2030 document has been released by Shaji KV, Chairman of NABARD. Its main aim is to address India's need for green financing.

Key Highlights:

India's Green Financing Gap: India requires approximately \$170 billion annually to reach a cumulative total of over \$2.5 trillion by 2030 for green financing.

As of 2019-20, India garnered about \$49 billion in green financing, with most funds directed toward mitigation. Only \$5 billion was allocated to adaptation and resilience.

Private sector engagement in green financing is limited due to challenges in bankability and commercial viability.

NABARD's Climate Strategy 2030 is based on 4 key pillars:

Accelerating green lending across sectors,
Playing a broader market-making role,
Internal green transformation, and
Strategic resource mobilization.

This strategy will make NABARD a pivotal player in India's transition towards a resilient and sustainable economy.

India's Sustainable Environment Goals: India is the world's third-largest emitter of greenhouse gases, after China and the United States.

India's ambitious targets include achieving 175 GW of renewable energy capacity by 2022 and 450 GW by 2030.

India's Nationally Determined Contribution (NDC) under the Paris Agreement aims to reduce the emissions intensity of GDP by 33-35% by 2030 from the 2005 level.

About NABARD:

Headquarters : Mumbai, Maharashtra, India

Chairman : Shri. Shaji K V

It was established on the recommendations of the Sivaraman Committee (by Act 61, 1981 of Parliament) on 12 July 1982 to implement the National Bank for Agriculture and Rural Development Act 1981.

NABARD is an apex regulatory body for the overall regulation of regional rural banks and apex cooperative banks in India.

It is under the jurisdiction of the Ministry of Finance (MoF), Government of India (GoI).

143. Answer: A

The Reserve Bank of India (RBI) has allowed standalone primary dealers (SPDs) to borrow in foreign currency from their parent companies and entities it has authorised.

They can also access overdraft facilities in their nostro accounts for operational purposes.

Definition of Nostro Account: A nostro account is a bank account held in a foreign country by a domestic bank, denominated in the currency of that foreign country.

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Key Highlights:

SPDs in India: An SPD dealing in euros would open an account with a bank in the **European Union for transaction settlements.**

Standalone Primary Dealers (SPDs): As of March 31, 2023, there were **7 SPDs** registered as non-banking financial companies (NBFCs) with the RBI.

The RBI has also included SPDs within the scope of norms for risk management and inter-bank dealings, enabling them to engage in foreign exchange products.

2018 Authorization: SPDs were authorized in **2018** to offer forex products to clients, including foreign portfolio investors.

SPDs have been classified as **Authorised Dealer Category-III.**

Non-core Activities: Forex product dealings by SPDs will be part of their non-core activities.

Funding and Regulations: SPD Funding: Funds mobilized by SPDs grew by **4% year-on-year in 2022-23.**

Borrowings accounted for **3%** of their total sources of funds.

Risk Management and Reporting: The RBI's Master Direction on Risk Management and Inter-Bank Dealings states that if foreign currency draws exceed prescribed limits and are not adjusted within 5 days, a report must be submitted within 15 days from the end of the month when the limit was exceeded.

Authorized Dealers (ADs) and FX Derivatives:

ADs (banks authorized to deal in foreign exchange/FX) should report all OTC (over the counter) FX derivative contracts and foreign currency interest rate derivative contracts, undertaken by them directly or through their overseas entities

(including overseas branches, IFSC Banking Units, wholly owned subsidiaries and joint ventures of ADs), to the Trade Repository (TR) of Clearing Corporation of India Ltd (CCIL).

Net Overnight Open Position Limit (NOOPL):

Capital Charge: A board of authorized dealers may set the NOOPL for calculating the capital charge on forex risk.

However, this limit should **not exceed 25% of the dealer's total capital (Tier-I and Tier-II capital).**

144. Answer: A

Free hospitalization benefits worth Rs 86,000 crore have been provided to beneficiaries of the **Pradhan Mantri Jan Arogya Yojana (PM-JAY)** since the scheme was rolled out in **September 2018.**

More than 65 million people have so far benefited from the PMJAY scheme which offers Rs 5,00,000-a-year free health cover.

The scheme was made available for 107 million poor households in the country, roughly covering the bottom 40% of the population.

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The Centre launched the scheme on September 23, 2018, to alleviate the suffering of the people due to the rising cost of healthcare.

People from Tamil Nadu benefitted most under the scheme, followed by Karnataka, Rajasthan, Kerala, Andhra Pradesh and Gujarat.

Key Highlights

More than 34.29 crore Ayushman Cards have been issued to beneficiaries so far. As many as 30,162 public and private hospitals are empanelled under PM-JAY.

According to a Niti Aayog report unveiled in October 2021, at least 30% of the population, or 400 million individuals – called the missing middle in this report – are devoid of any financial protection for health.

Pradhan Mantri Jan Arogya Yojana (PM-JAY) scheme was launched on 23rd September 2018 in Ranchi, Jharkhand by the Hon'ble Prime Minister of India, Shri Narendra Modi.

About PM-JAY

Ayushman Bharat PM-JAY is the largest health assurance scheme in the world which aims at providing a health cover of Rs. 5 lakhs per family per year for secondary and tertiary care hospitalization to over 12 crores of poor and vulnerable families (approximately 55 crore beneficiaries) that form the bottom 40% of the Indian population.

The households included are based on the deprivation and occupational criteria of the Socio-

Economic Caste Census 2011 (SECC 2011) for rural and urban areas respectively.

M-JAY was earlier known as the National Health Protection Scheme (NHPS) before being rechristened. It subsumed the then-existing Rashtriya Swasthya Bima Yojana (RSBY) which had been

launched in 2008.

The coverage mentioned under PM-JAY, therefore, also includes families that were covered in RSBY but are not present in the SECC 2011 database. PM-JAY is fully funded by the Government and the cost of implementation is shared between the Central and State Governments.

It covers up to 3 days of pre-hospitalization and 15 days of post-hospitalization expenses such as diagnostics and medicines.

There is no restriction on family size, age or gender. All pre-existing conditions are covered from day one.

The National Health Authority is implementing the scheme.

145. Answer: B

The Food Safety and Standards Authority of India (FSSAI) ordered a comprehensive testing of spices from all brands across the nation.

This decision follows the suspension of sales of certain spice blends from two leading brands, MDH and Everest, by Singapore and Hong Kong.

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The suspension was due to elevated levels of **ethylene oxide (ETO)**, a pesticide unsuitable for human consumption and associated with long-term cancer risks.

Additionally, it has instructed state governments to conduct spice testing to guarantee quality. The FSSAI also intends to initiate surveillance on other food products such as fortified rice and dairy products.

In a separate development, India's Spices Board has mandated ETO testing for all spices exported to Hong Kong and Singapore. This testing comes into effect from **May 6**.

Despite Indian authorities establishing standards for **30 spices and condiments**, export countries such as Hong Kong, Singapore, and the US maintain their stringent standards compared to those in India.

Last month, Hong Kong suspended sales of three spice blends produced by MDH and one fish curry spice mix by Everest. Singapore, too, issued a recall for the same Everest blend.

About FSSAI:

The Food Safety and Standards Authority of India (FSSAI) is a statutory body under the administration of the **Ministry of Health and Family Welfare, Government of India**. It regulates the manufacture, storage, distribution, sale, and import of food articles, while also establishing standards to ensure food safety. The FSSAI was established by the **Food Safety and Standards Act, of 2006**, which consolidated all former acts

and orders related to food safety that were previously handled by various ministries and departments.

The FSSAI has its headquarters in **New Delhi**.

The authority also has four regional offices located in **Delhi, Mumbai, Kolkata, and Chennai**.

There are 22 referral laboratories notified by FSSAI, 72 State/UT laboratories located throughout India and 112 laboratories are NABL-accredited private laboratories notified by FSSAI.

146. Answer: B

- Investments through participatory notes in the Indian capital markets reached Rs 1.5 lakh crore at the end of February 2024, making it the highest level in nearly six years, driven by a strong performance of the domestic economy.
- The latest data includes the value of **P-note investments in Indian equity, debt, and hybrid securities**.
- Participatory notes (P-notes) are issued by registered **foreign portfolio investors (FPIs)** to overseas investors who wish to be part of the Indian stock market without registering themselves directly.
- They, however, need to go through a due diligence process.

Key Highlights

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- According to the latest data from markets regulator Sebi, the value of P-note investments in Indian markets -- equity, debt, and hybrid securities -- stood at Rs 1,49,517 crore at the end
- of February compared to Rs 1,43,011 crore at the end of January.
- Of the total Rs 1.5 lakh crore invested through this route till February, Rs 1.27 lakh crore was invested in equities, Rs 21,303 crore in debt, and Rs 541 crore in hybrid securities.
- In addition, assets under custody of the FPIs grew to Rs 68.55 lakh crore in February-end from Rs 66.96 lakh crore in the preceding month.
- Meanwhile, FPIs invested a net sum of Rs 1,539 crore in the Indian equities and Rs 22,419
- crore in the debt market in February.

147. Answer: D

Mumbai City FC beat Mohun Bagan Super Giant 3-1 at the Salt Lake Stadium to emerge as the Indian Super League (ISL) 2023-24 Cup Winners at the final in Kolkata.

Indian Super League (ISL) 2023-24 was the **10th** season of ISL.

It started on 21 September 2023.

It concluded with the ISL Cup final on 4 May 2024.

The ISL Cup final was played at the Vivekananda Yuba Bharati Krirangan in Kolkata.

Golden Glove: Phurba Lachenpa (Mumbai City FC), **Golden Boot:** Dimitrios Diamantakos (Kerala Blasters FC)

Emerging Player of the League: Vikram Partap Singh (Mumbai City FC).

Player of the League: Dimitrios Petratos (Mohun Bagan Super Giant).

148. Answer: D

The **Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers** launched the **MEDITECH STACKATHON 2024**.

MEDITECH STACKATHON 2024 was launched in New Delhi in collaboration with the **Confederation of Indian Industry (CII)**.

Its goal is to transform the rapidly expanding MedTech industry in India by carefully examining the value chain of certain medical products.

Its objective is to address significant issues, encourage domestic production, reduce dependency on imports, and eventually position India as a world leader in medical technology.

The **STACKATHON** included several topics, including critical care, imaging, and cancer therapy.

India is the 4th largest market for medical devices in Asia and among the top 20 globally.

India's MedTech industry holds immense potential, with projections estimating a growth

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rate of 28% annually, reaching a size of USD 50 billion by 2030.

149. Answer: E

Oxford Bookstores announced **Bhavi Mehta** as the winner of the 9th edition of the Oxford Bookstore Book Cover Prize at a celebratory event hosted at the India Habitat Centre. Mehta won the prize for the book jacket of “**The Book Beautiful**” published by Hachette India and authored by **Pradeep Sebastian**.

The winner was felicitated with a trophy, certificate and 1 Lakh Indian Rupees cash prize by **Alka Pande**, Museum curator, art historian, author and jury chair; **Dr. Shashi Tharoor**, well-known author, politician and Member of Parliament; **H.E Ms. May-Elin Stener**, Ambassador of Norway to India, **Ms. Anja Riedeberger**, Director Information Services South Asia Goethe-Institut / Max Mueller Bhavan and **Mr. Swagat Sengupta**, CEO, Apeejay Oxford Bookstores, in the presence of designers, publishers, artists and literary enthusiasts from the industry.

In addition to the winning cover, three more designers were acknowledged by the jurors in appreciation of their remarkable command of graphics and visual narratives.

These designers are **Gunjan Ahlawat** for the book, “**The Penguin Book of Indian Poets**” published by **Hamish Hamilton**- an imprint of **Penguin Random House**; **Saurav Das** for “**Azad**

Nagar” published by **HarperCollinsIndia** and **Saurabh Garge** for “**The Adornment of Gods**” published by **Westland Books**.

150. Answer: A

The legendary coach who led **Argentina** to its first World Cup title in **1978**, **César Luis Menotti**, has passed away at the age of 85.

About Cesar Luis Menotti:

Known as “**El Flaco**” (“**Slim**”), Menotti played for several prominent clubs including Rosario Central, Boca Juniors, and Santos.

He began his coaching career with Newell’s Old Boys and won the **Argentine championship with Huracan in 1973**.

He took over as head coach of the Argentine national team in **1974** and led Argentina to its first World Cup victory in 1978.

As a manager, he won **three cups** with Barcelona and also led Atlético Madrid in La Liga in the 1980s, as well as leading Superclásico rivals Boca Juniors and River Plate.

He was briefly the manager of Mexico and Italian Serie A club Sampdoria in the 1990s.

Menotti coached Argentina’s national team between 1974 and 1983.

He was convinced the side did not get the recognition it deserved when it won the World Cup in 1978 because the country was ruled by a military junta responsible for widespread human rights violations.

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151. Answer: C

The Ministry of Skill Development and Entrepreneurship (MSDE) signed a Memorandum of Understanding (MoU) with Mahindra & Mahindra Ltd to conduct two Pilot Projects under the Drone Didi Yojana.

Launched earlier this year, the scheme aims to train 15,000 women to operate drones for agricultural purposes such as fertilizing crops, monitoring crop growth and planting seeds, thereby creating new livelihood opportunities for women through imparting skills in new technology areas.

Under this partnership, MSDE and M&M will conduct two Pilot Projects at the National Skill Training Institute (NSTI), situated in Hyderabad and Noida, to skill 500 women in exclusive batches of 20 women each.

The 15-day curriculum, approved by the Directorate General of Civil Aviation (DGCA), will be delivered through Remote Pilot Training Organisation (RPTO) instructors at these Centres.

The learning and outcomes from the Pilot Projects will assist MSDE in scaling up the Drone Didi Yojana at identified NSTIs/ITIs across the country.

As further support to the intent of the Drone Didi Yojana, M&M will soon roll out Drone training for women at the company's skilling centres at Zaheerabad, Telangana, and Nagpur, Maharashtra.

About Drone Didi Yojana

NAMO Drone Didi Scheme was launched by Prime Minister Sh. Narendra Modi through Video Conferencing on 30th of November 2023.

The main objective behind starting this scheme is to empower women members of Self Help Groups by providing them a mode and platform to earn more.

This scheme is also known by some other names in the whole the country like "NAMO Drone Didi Yojana" or "Pradhanmantri Drone Didi Scheme" or "Prime Minister Drone Didi Scheme".

The initiative aims to supply drones to 15,000 women Self Help Groups (SHGs) to rent to farmers for agriculture purposes.

The government of India under the NAMO Drone Didi Scheme will provide drones on subsidised prices to Women Self Help Groups.

These Drones can be used by the members of Women Self Help Groups for rental purposes.

A subsidy of 80% of Drone Cost or a maximum of Rs. 8,00,000/- will be provided to Women Self Help Groups (SHGs) to purchase drones for commercial purposes under the NAMO Drone Didi Scheme.

A loan Facility from the National Agriculture India Financing Facility (AIF) will also be available for Women SHGs to cover the remaining cost of the drone.

The interest rate payable on a loan from AIF is 3% per year.

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It is mandatory to complete the drone fly training program to avail of the subsidy on the purchase of drones under the Namu Drone Didi Scheme.

It is to be estimated that, Beneficiaries of the Namu Drone Didi Scheme can earn an additional income of Rs. 1,00,000/- per year with the help of drones which is provided to them under the Namu Drone Didi Scheme.

Only Women Self Help Groups are eligible to claim the subsidy to purchase drones under the NAMO Drone Didi Scheme.

Drone will only be used for rental purposes for Agricultural Activity.

152. Answer: A

HDFC Bank has launched "PIXEL," an end-to-end, mobile app-based customizable DIY digital card range.

PIXEL is aimed at customers characterised by digital fluency, unique preferences, and distinct financial behaviours.

PIXEL is a first-of-its-kind range of digital credit card series that offers seamless app-based issuance, complete digital lifecycle management, user engagement and digital servicing.

Key Features :

Customization: Customers can customise the maximum value, choice of merchants for earning cashback, choice of online platforms for cashback, card colours, billing dates, and repayment options including low-cost EMIs.

Cashback Options: Users can earn up to 5% cashback on dining and entertainment, travel, fashion,

electronics, and grocery purchases.

Additionally, they can earn 3% cashback on select online platforms like Amazon, Flipkart, and PayZapp, and 1% cashback on other spends.

Instant Digital Issuance: Seamless digital onboarding with instant digital card issuance and instant online and offline shopping with Tap & Pay.

Control and Management: Users have complete control through PayZapp, including card control settings, and real-time tracking on spends, rewards, EMIs, statements, and repayments.

Customer Service: Complete digital customer service support available 24/7.

PIXEL will be offered in 2 variants –PIXEL Play and PIXEL Go.

Both card variants offer up to 50 50-day credit-free periods.

PIXEL Play: A 'Build Your Own Card' variant offering customisable benefits including merchants for accelerated cashback, card color, and billing date.

Targeted at users seeking digital customization and credit card benefits.

PIXEL Go: Designed for beginners entering the credit card world, offering flexibility in payments through pay-in-parts.

Banking tech company, Zeta, is the technology provider for Pixel.

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About HDFC Bank Limited :

Founded : August 1994

Headquarters : Mumbai, Maharashtra, India

MD & CEO : Sashidhar Jagdishan

Tagline : We Understand Your World

153. Answer: E

One97 Communications, the parent company of **Paytm**, has launched the **UPI Lite wallet** to simplify payments, particularly for **low-value transactions**.

Key Highlights :

Convenience: Paytm's UPI Lite wallet offers a seamless payment experience, eliminating the need to enter a PIN for each transaction.

Transaction Limits: Users can make instant transactions of up to **Rs 500 each** using the UPI Lite wallet.

Additionally, they can add up to **Rs 2,000 to their wallet twice a day, totalling Rs 4,000 daily**.

Utility: Paytm emphasizes the UPI Lite wallet as an essential tool for everyday transactions, providing convenience and efficiency.

Bank Integration: Integration with major banks ensures a reliable payment experience for users. Leading banks such as **Axis Bank, HDFC Bank, State Bank of India, and YES Bank** are part of this collaboration.

Collaboration: One97 Communications Limited collaborates with prominent Payment System Providers to establish a robust and reliable framework for the UPI Lite wallet.

Transaction Limits According to NPCI: The UPI Lite wallet is designed for small transactions, with transaction limits set by the National Payments Corporation of India (NPCI) at up to **Rs 500 per transaction**.

About Paytm :

Founded : August 2010

Headquarters : Noida, Uttar Pradesh, India

154. Answer: D

Tata Consultancy Services (TCS), a global leader in IT services, consulting, and business solutions, has announced the **creation of a Global Artificial Intelligence (AI) Center of Excellence in Paris**, during the **Choose France Summit**, hosted by **President Emmanuel Macron**.

The center will focus on designing and evolving AI to address business efficiencies and societal priorities, particularly in areas like brain-computer interface, empathy in machines, and AI's role in arts and culture.

The new AI center will be situated in the upcoming **TCS PacePort™** in the La Défense area of Paris.

Inauguration is scheduled for **June 2024**, making it the **7th such facility in TCS' global Pace network**, joining locations like **Amsterdam, London, New York, Pittsburgh, Toronto**, and The TCS AI Center of Excellence in Paris will leverage TCS' global ecosystem of startups, academia, and research organizations to bring

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the best of global capabilities to French companies.

The plan for the new AI center, unveiled at a summit attended by **300 global CEOs**, will be inaugurated in June 2024.

TCS commenced operations in **1992**, and since then acquired TKS- Teknosoft in 2006, and Alti in 2013, to boost its presence in the region.

About TCS :

Founded : 1968

Headquarters : Mumbai, Maharashtra, India

Chairman : Natarajan Chandrasekaran

CEO : K. Krithivasan

155. Answer: E

The **first set of citizenship certificates to 14 people was issued under the Citizenship (Amendment) Act 2019 or CAA**, nearly two months after the Centre notified it, initiating the process of granting Indian nationality to persecuted **non-Muslim migrants from Pakistan, Afghanistan and Bangladesh**.

Under the CAA, the qualification period of citizenship application has been reduced from **11 to 5 years for undocumented non-Muslim migrants from Pakistan, Bangladesh and Afghanistan who came to India before December 31, 2014**.

Union Home Secretary Shri Ajay Kumar Bhalla handed over the citizenship certificates to the applicants in Delhi and highlighted salient features of the CAA.

Secretary Posts, Director (IB), Registrar General of India and senior officers were also present during the interactive session.

156. Answer: E

The **Ramcharitmanas, Sahridayaloka-Locana, and Panchatantra** have been included in the **United Nations Educational, Scientific and Cultural Organization's (UNESCO) Memory of the World Asia-Pacific Regional Register**, marking a significant achievement for India.

UNESCO has recognized a total of **20 items from the Asia Pacific region** in its Memory of the World Regional Register for the 2024 cycle.

These included three each from China and Indonesia, and two each from Malaysia, Mongolia, the Philippines, and Uzbekistan.

The decision on the same was taken on May 7-8 in the **10th General Meeting of the Memory of the World Committee for Asia and the Pacific (MOWCAP)** in Ulaanbaatar, the capital of Mongolia.

The addition of these 3 Indian literary legacies in the register will attract more readers, and researchers across the world to dive into the artistic world of expression.

Key Highlights :

Authors and Works:

Ramcharitmanas: Written by **Goswami Tulsidas** in the 16th century, a retelling of the Ramayana in the Awadhi dialect.

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Panchatantra: Attributed to **Vishnu Sharma**, penned around the 3rd century BCE, is known for its 'story within a story' structure.

Sahrdyaloka-Locana: Written by **Acharya Anandvardhan**, commented upon by philosopher Abhinava Gupta, focusing on Indian poetics and aesthetic appreciation.

Role of IGNCA:

The **Indira Gandhi National Centre for the Arts (IGNCA)** played a crucial role in securing the inclusion of these works during the 10th MOWCAP meeting.

MOWCAP Overview:

In the Asia Pacific region, a specific branch called the Memory of the World Committee for Asia and the Pacific (MOWCAP) was established in **1998**. MOWCAP covers **43 countries**, representing one of UNESCO's five regional programs.

There are 494 inscriptions on the International MoW Register, as of May 2023, according to the UNESCO website. MOWCAP Regional Register has inscribed **65 items from Asia-Pacific countries**.

About UNESCO :

Formation : 16 November 1945

Headquarters : Paris, France

Director General : Audrey Azoulay

Members : 194 member states and 12 associate members

UNESCO is a specialized agency of the United Nations (UN) with the aim of promoting world peace and security through international

cooperation in education, arts, sciences and culture.

157. Answer: D

Indian merchant payment company **Pine Labs** has partnered with **Emirates NBD**, one of the major banks in the **Middle East, North Africa and Turkey (MENAT)** region to deploy its payment solutions to the bank's business clients.

Emirates NBD will offer **Pine Labs'** newly launched credit issuing platform to deliver merchant acquiring solutions for its corporate and institutional clients, initially in the United Arab Emirates, then across the Kingdom of Saudi Arabia and Egypt.

These solutions will enable the bank's clients to improve their digital payment solutions for both online and in-store payments.

About Pine Labs

Pine Labs is an Indian company that provides point-of-sales systems and payment systems. Founded in 1998.

B Amrish Rau, CEO, Pine Labs.

158. Answer: C

Legendary Indian banker Narayanan Vaghul, the recipient of the **Padma Bhushan Award** in 2009, has passed away.

Narayanan Vaghul was the youngest head of a bank when he took over as chairman of the Bank of India at the age of 44 in the year 1981.

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Between 1981 and 1985 he headed the development bank ICICI Ltd. as its Chairman & CEO. It was under him that ICICI Ltd transformed from a development bank to India's second-largest private sector commercial bank.

Narayanan Vaghul, 88, started his career in State Bank of India.

In 2023, Narayanan Vaghul released his memoir, called 'Reflections' which carried a vivid account of his experiences spanning several decades in India's financial sector.

Mr Vaghul is credited with laying the foundation of a new era in Indian banking through the creation of the Universal Banking model to cater to the needs of varied segments of customers.

It was he who introduced the concept of credit rating in India and established CRISIL in 1987.

159. Answer: B

Haryana Chief Minister **Shri Manohar Lal**, inaugurated the '**Savera**' program initiated by the **Medanta Foundation** in collaboration with the **Health Department in Gurugram**, aimed at early detection and prevention of breast cancer, a growing concern among women.

This groundbreaking initiative marks the **first of its kind in the country**, focusing on detecting breast cancer in its early stages among women.

Key Highlights :

In its initial phase, the program will be launched at the **Civil Hospital in Sector-10 of Gurugram**, the

Polyclinic in Sector-31, and the **Primary Health Center in Wazirabad**.

The program capitalizes on the naturally heightened tactile sensitivity possessed by visually impaired individuals.

The launch of Savera coincides with the establishment of the National Cancer Institute at **AIIMS Jhajjar**, equipped with 1,000 beds. This comprehensive approach signifies Haryana's commitment to providing accessible and advanced cancer care to its citizens.

Khattar stated that cancer often goes undiagnosed until its later stages, ranging from stage 2 to stage 4, impacting various parts of the body.

Similarly, breast cancer is also one of those cancers.

About **90,000 women** across the country lose their lives every year due to breast cancer.

About Haryana :

Governor : Bandaru Dattatreya

Chief Minister : Manohar Lal Khattar

Capital : Chandigarh

National Park : Kalesar National Park

Wildlife Sanctuary : Bhindawas Wildlife & Bird Sanctuary, Chhilchhila Wildlife Sanctuary

160. Answer: D

The **Central Consumer Protection Authority (CCPA)** has released draft guidelines on the prevention and regulation of greenwashing for public consultation.

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The draft guidelines state that **all green claims must be backed by “verifiable” evidence** and full disclosures regarding **claims should be made either directly or through QR code or web links.**

“Generic terms such as ‘clean’, ‘green’, ‘eco-friendly’, ‘eco-consciousness’, ‘good for the planet’, ‘minimal impact’, ‘cruelty-free’, ‘carbon-neutral’ and similar assertions shall not be used without adequate qualifiers and substantiation and adequate disclosure,” the draft guidelines stated.

The draft guidelines define Greenwashing as “any deceptive or misleading practice, which includes

concealing, omitting, or hiding relevant information, by exaggerating, making vague, false, or unsubstantiated environmental claims and use of misleading words, symbols, or imagery, placing emphasis on positive environmental aspects while downplaying or concealing harmful attributes”.

Guidelines will apply to all advertisements and Service providers, product sellers, advertisers, advertising agencies, or endorsers whose service is availed for the advertisement of such goods or services.

Computer Knowledge

161. Answer: A

Embedded OS is the specialized OS for use in computers which are built into larger systems.

162. Answer: B

CC (Carbon Copy)

- To type the e-mail address of the other recipients’ in this box, each address is separated by a comma (,).
- When you complete the mail and click the "Send" button, then the mail will automatically be sent to all the recipients.
- Here, all the recipients will know who the other recipients are.

163. Answer: D

Installation

The process of copying software programs from secondary storage media to the hard disk.

164. Answer: C

UNIX is not owned and licensed by a company

165. Answer: C

Primary Key is a special key that uniquely identifies each record in the table. It has a unique value for each row of data, and it cannot contain null values.

Super Key is a set of one or more attributes whose values uniquely determine each entity in the database table.

Candidate Key is a set of columns in the table from which primary key can be selected to identify

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each record. Every database table may have one or more candidate keys.

166. Answer: D

Colossus was the world's first electronic digital programmable computer. It used a large number of valves (vacuum tubes). It had paper-tape input and was capable of being configured to perform a variety of Boolean logical operations on its data, but it was not Turing-complete.

167. Answer: E

In cryptography, data are sent in such a way that they look completely different from the original data. Thus, cryptography ensures secure transfer of data over an unsecured network.

168. Answer: C

A term used to describe services over a network by a collection of servers is refers to Cloud computing

169. Answer: B

Verification means are we building Product Right and Validation means are we building Right Product.

170. Answer: D

In Power Point, the Header & Footer button can be found on the Insert tab in Text group.

171. Answer: A

Find and Replace

- Ctrl + H

172. Answer: B

The first laptop computer available to the public was the Osborne 1. The Osborne Computer Corporation released this model in 1981. It cost \$1795 at the time of release.

173. Answer: B

Runtime polymorphism

- Runtime polymorphism means we will declare a method with same name and same parameter/signature in the different class is called runtime polymorphism.
- Runtime polymorphism or Late Binding or Overriding or dynamic binding

174. Answer: B

Phishing is a cybercrime in which a target or targets are contacted by email, telephone or text message by someone posing as a legitimate institution to lure individuals into providing sensitive data such as personally identifiable information, banking and credit card details, and passwords.

175. Answer: A

The Scottish mathematician John Napier published his discovery of **logarithms** in 1614. His

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purpose was to assist in the multiplication of quantities that were then called sines.

176. Answer: B

"Mnemonic", a "memory trick" is used in "Assembly language". It is low level symbolic language that is translated by the assembler. Mnemonics are used to depict various operations and commands in assembly language.

177. Answer: C

The first (retroactively) RISC-labeled processor (IBM 801 – IBM's Watson Research Center, mid-1970s) was a tightly pipelined simple machine originally intended to be used as an internal microcode kernel, or engine, in CISC designs, but also became the processor that introduced the RISC idea to a somewhat larger public.

A complex instruction set computer (CISC /ˈsɪsk/) is a computer in which single instructions can execute several low-level operations (such as a load from memory, an arithmetic operation, and a memory store) or are capable of multi-step operations or addressing modes within single instructions.

178. Answer: C

Fortran is a general-purpose, compiled imperative programming language that is especially suited to numeric computation and scientific computing.

179. Answer: B

The UNIX is a multitasking operating system where many users can work at a single time. It is open source and works on the basis of commands. The "IS" command is used to repeat the entire last command line.

180. Answer: D

Auxiliary memory is also called secondary memory.

181. Answer: C

Spark lines are graphs that can fit into one cell and gives information about the data.

Spark lines are not charted objects; instead, they exist as background images within a cell. They will instantly update when the data change. Excel Spark lines are customizable.

182. Answer: A

MIDI stands for Musical Instrument Digital Interface, is a technical standard that describes a protocol, digital interface and connectors and allows a wide variety of electronic musical instruments, computers and other related devices to connect and communicate with one another.

183. Answer: B

Dynamic Random Access Memory (DRAM) needs to be refreshed frequently to maintain the data.

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DRAM is used for data or program code that a computer processor needs to function. It is used in personal computers (PCs), workstations and servers.

Random access allows the PC processor to access any part of the memory directly rather than having to proceed sequentially from a starting place.

184. Answer: D

For representing binary digits, the hexadecimal notation is used commonly. Another advantage of using it is that a hexadecimal digit represents a nibble which is one half of a byte which has range from 00 to FF where F is 15 in decimal system.

185. Answer: A

Thermal printers are inkless.

186. Answer: D

The Binary language uses only two numbers that are 0 and 1 which are assigned to particular characters for the computer to understand the input. A computer later converts these characters into numbers for its own understanding and then processes the instructions and later converts them back to characters as per the numbers assigned to them to show the desired output.

187. Answer: B

A page break is a marker in an electronic document that tells the document interpreter that the content which follows is part of a new page.

188. Answer: B

A field is the smallest piece of information in the database. Different fields comprise to form what is known as a record. For instance, if a table has details about the employees, then the name, number, department etc. are the fields.

189. Answer: C

FORTTRAN is an abbreviation which stands for the term "formula translation". It is a machine independent, high-level programming language which is used for mathematical & scientific purposes.

190. Answer: A

E-R model uses top-down approach; Bottom-up approach is known as normalization.

191. Answer: B

Reboots can be either cold (alternatively known as hard) where the power to the system is physically turned off and back on again, causing an initial boot of the machine, or warm (alternatively known as soft) where the system restarts without the need to interrupt the power.

192. Answer: C

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Animation refers to a process of creating an illusion of motion of static images. This feature is available in the PowerPoint application of Office Suite.

193. Answer: A

IBM- also known as International business machines is the company based out of the United States of America. It developed the first computer called as IBMPC in the year 1981.

194. Answer: D

UDP and TCP protocols are used for providing end-to-end connectivity between nodes in a network as they use connectionless and connection oriented services, respectively. The end-to-end communication between nodes is the responsibility of the Transport layer.

195. Answer: A

Swapping concept comes in terms of process scheduling. Scheduler removes process from CPU for duration and reduces the degree of multiprogramming. And after some time these process can again be reintroduced into main memory.

196. Answer: C

Intel is the company renowned in manufacturing of ICs and microprocessors. It built the first Intel

microprocessor as 4004. Different microprocessors developed afterwards with more number of pins and different functionalities.

197. Answer: A

A Primary key is always linked to a unique variable. So it acts as a unique identifier for the data in the table. Hence, it is used to prevent duplicability of data in the table. It makes sure that the data to which the key is attributed is not duplicated anywhere in the database otherwise that data would not be inserted.

198. Answer: C

10 and 500 are valid minimum & maximum zoom sizes in MS word.

199. Answer: C

Multi-programming started in third generation.

200. Answer: C

John Ambrose Fleming is said to be inventor of vacuum tubes, it was invented in 1904. They were a basic component for electronics throughout the first half of the twentieth century, which saw the diffusion of radio, television, radar, sound reinforcement, sound recording and reproduction, large telephone networks, analog and digital computers, and industrial process control.