



TEST FORM NUMBER

Maximum Marks : 100
Total Questions : 100
Time Allowed : 60 Min.

INSTRUCTIONS TO CANDIDATE**Read the following instructions carefully before you begin to attempt the questions.**

- (1) This booklet contains **100 Questions** in all comprising the following **three** parts.

Part-(I) : Reasoning Aptitude	(35 Questions)
Part-(II) : Quantitative Aptitude	(35 Questions)
Part-(III) : English Language	(30 Questions)
- (2) All the questions are compulsory and carry equal marks.
- (3) Before you start to attempt the questions, you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.
- (4) **Each question carries negative marking also as 0.25 mark will be deducted for each wrong answer.**
- (5) You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test name/Id and name of the examination on the Answer-Sheet carefully before you actually start attempting the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
- (6) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **pencil or Black/Blue ball pen** only.
- (7) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/ different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- (8) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- (9) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.
- (10) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- (11) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
- (12) No rough work is to be done on the Answer-Sheet.
- (13) No candidate can leave the examination hall before completion of the exam.

NAME OF CANDIDATE:.....

DATE :..... CENTRE CODE :.....

ROLL No

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Reasoning Aptitude

Directions [01–02]: A certain number of persons are sitting in a linear row. All of them are facing in the north direction. M sits fourth to the right of H and immediate left of R. Six persons sit between D and H. V sits fourth from one of the ends of the row. Five persons sit between D and F, who sits second to the left of V. R sits second from one of the ends of the row.

- How many people are sitting in a row?
(A) 15 (B) 20
(C) 19 (D) 21
(E) 23
- What is the direction of V with respect to D?
(A) Fourth to the left (B) Immediate right
(C) Fifth to the left (D) Second to the right
(E) Third to the left

Directions [03 – 07]: Seven people in a company posted at different designations went on a meeting with the investors on seven consecutive days from Monday to Sunday. The designations of these people in decreasing order is as Chairman> CEO> MD> HR> Lead> Manager> Associate. On a day, only one person of the company had meeting with the investors.

M went on Wednesday. The HR went on a consecutive day to the Lead. The Lead was the second last person to go. R went immediately after O who is the MD. The associate went immediately after P. Two people went between N and the HR. Three people went between R and the person who is the CEO. S went before Q. Q is senior to M, who is senior to N.

- Who among the following went on Thursday?
(A) O (B) N
(C) R (D) S
(E) None of these
- What is the designation of S?
(A) Lead (B) Chairman
(C) HR (D) Associate
(E) CEO
- How many people went after the Manager?
(A) 2 (B) 4
(C) 3 (D) 5
(E) None of these
- Which of the following statements is true?
(A) P went on Monday
(B) Q was the last person to go
(C) Two people went between N and R
(D) R is the HR
(E) All are true
- On which day N went for the meeting?
(A) Tuesday (B) Monday
(C) Friday (D) Thursday
(E) None of these

- In the question given below, three statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

Statements: Only a few beet are root

Some radish are root

All potatoes are root

Conclusions: I. Some potato are not radish

II. All potato are radish

- (A) Either I or II follows (B) Both I and II follow
(C) Only I follows (D) Only II follows
(E) Neither I nor II follows

- In the question given below, three statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

Statements: Only a few Amla are Iron.

Only a few Iron are Hemoglobin.

No hemoglobin is White.

Conclusion: I. All Iron can never be White.

II. No Hemoglobin is Amla.

- (A) Only II follows (B) Either I or II follows
(C) Both follows (D) Only I follows
(E) Neither I nor II follows

- Three statements are given followed by conclusions I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions carefully and decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

Statements: Only a few 12's are 11's.

Some 14's are 13's.

No 14's are 11's.

Conclusions: I. All 13's being 11's is a possibility.

II. Some 12's are not 11's.

- (A) Only I follows (B) Only II follows
(C) Either I or II follows (D) Both I and II follow
(E) Neither I nor II follows

- The question given below consists of two statements numbered I and II given below it. You have to decide whether the data given in the statements are sufficient to answer the question. Point F is in which direction from point A?

Statement I: Point B is in 5m east of point A. Point C is 12m north of point B.

Statement II: Point E is 4m west of point C. Point F is 8m north of point E.

- (A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
(B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
(C) If the data either in statement I alone or in statement II alone are sufficient to answer the question
(D) If the data given in both statements I and II together are not sufficient to answer the question
(E) If the data in both statements I and II together are necessary to answer the question

Directions [12–13]: Study the following information carefully and answer the questions given below it:

Raju was studying about the family of Mahatma Gandhi. There were several members in his family. It is known that Putlibai was the mother of Laxmidas who is a male. Kasturba was the daughter – in – law of Karamchand. Manilal is the son of Mohandas.

Karsandas is the unmarried son of Karamchand. Hiralal is the son of Kasturba and the sibling of Manilal. Karamchand was married to Putlibai.

12. How is Hiralal related to Karsandas?
 (A) Brother (B) Cousin
 (C) Son (D) Nephew
 (E) Uncle
13. How is Kasturba related to Laxmidas?
 (A) Mother (B) Mother – in – law
 (C) Sister – in – law (D) Sister
 (E) Aunt

Directions [14–16]: Eight friends, A, B, C, D, E, F, G, and H, wear different sized shirts. The size of each shirt is an even number. E wears a larger shirt than H and only two friends wear a smaller shirt than B. A wears an immediate larger shirt than G, who wears a size, which is a perfect square. The size of the second largest shirt is 44, which is not worn by H. D wears an immediate smaller shirt than F. The number of friends who wear smaller shirts than C is thrice the number of friends who wear larger shirts than H. F wears a smaller shirt than A and wears a size which is divisible by three and five both.

14. How many friends wear larger shirts than A?
 (A) 3 (B) 2
 (C) More than 4 (D) Less than 2
 (E) Cannot be determined
15. If the sum of shirt sizes worn by A and G is 74, then what is the possible size of H's shirt?
 (A) 40 (B) 38
 (C) Either A or E (D) Either B or A
 (E) 42
16. What can be the possible size of B's shirt?
 (A) 38 (B) 36
 (C) 28 (D) 26
 (E) 34
17. In the question below, a statement is followed by two conclusions based on the statement. Study the statement and determine which conclusion is/are definitely true?
Statement: $R > A > Z = E \leq D$; $N < C \leq Q < R$
Conclusions: I. $Q \leq D$ II. $E < N$
 (A) Only I follow (B) Only II follow
 (C) Both I and II follow (D) Neither I nor II follow
 (E) Either I or II follow
18. In the question given below, a statement is followed by conclusions given in options based on the statement. Study the conclusions and select the correct option as the answer.
Statement: $H \geq T \leq U = P$; $T \geq X < C > K$
 (A) $U > C$ (B) $K < H$
 (C) Either (A) or (D) and (E) follows
 (D) $U \leq C$ (E) $P \geq X$

Directions [19–21]: At a birthday party six boxes of different chocolates viz. Melody, Pulse, Coffee, Gems, Munch and Perk are stacked one above other but not necessarily in the same order. The bottommost stack is numbered as 1 and the topmost stack is numbered as 6. Each box consists of a different number of chocolate viz., 2, 4, 8, 9, 11 and 17.

The Munch Box is immediately below the Perk box, which has a number of chocolates which is cube number. The number of chocolates in the Coffee

box is more than the number of chocolates in the Munch box. Two boxes are kept between the box which has prime number chocolates and the Gem box, which is immediately below the Pulse box. The coffee chocolate box is kept at an even number stack below stack 5. The number of chocolates in the Gems box is five more than chocolates in the Melody box. Only one box is kept between the Coffee box and the Pulse box, which has the highest number of chocolates. Gems is kept above Melody.

19. How many chocolate boxes are below Melody chocolate box?
 (A) 1 (B) 2
 (C) 3 (D) 4
 (E) None
20. What is the average of the chocolates kept in the Gem box and Coffee box?
 (A) 4 (B) 6
 (C) 10 (D) 12
 (E) 8
21. Which of the following chocolate box is kept immediately below the Coffee chocolate box?
 (A) Perk
 (B) The box has cube number chocolates.
 (C) Melody chocolate
 (D) The box which has the lowest chocolate.
 (E) Either A or B

Directions [22 – 26]: Seven students M, N, P, S, T, W and Z sit in a linear row facing north direction. Each of them are of different ages from 21 to 27 but not necessarily in the same order.

The student whose age is perfect square sits fourth to the right of M. Neither S nor M's age is a prime number. The age of P is neither 21 nor 24. M sits neither at the end of the row nor adjacent to P. T sits immediate right of the youngest student. The student whose age is prime number sits second to the left of P, who sits adjacent to N. Two students sit between S and N, who sits exactly middle of the row. The student whose age is perfect cube sits third to the left of Z, whose age is 26.

22. Who among the following is 24 years old?
 (A) M (B) S
 (C) W (D) Z
 (E) P
23. How many students sit between W and the one whose age is 21?
 (A) 1 (B) 2
 (C) 3 (D) More than 3
 (E) None
24. Four of the following are related to each other in some way and thus form a group, which of the following does not belong to that group?
 (A) P (B) M
 (C) T (D) N
 (E) W
25. If S is related to 21 in the same way Z is related to?
 (A) 23 (B) 27
 (C) 22 (D) 25
 (E) 24
26. T sits immediate left of _____, whose age is _____.
 (A) P, 25 (B) S, 26

(C) M, 21
(E) N, 27

(D) P, 23

Directions [27 – 29]: A certain number of people are sitting around a circular table, facing inwards and the names of a few of them are known. Less than eight people are sitting between B and A, when counted in a clockwise direction starting from A. Four people are sitting between G and C, who is sitting adjacent to D. E is sitting fifth to the left of F, who is sitting immediately to the left of D. A is sitting sixth to the right of H, who is sitting immediately to the right of G. The number of people sitting between B and C is eight, when counted in a clockwise direction starting from C. Only two people are sitting between A and D. B and A are not sitting adjacent to each other.

27. Which of the following statement(s) is/are true ?

- I. A is sitting ninth to the left of G.
II. B and G are sitting adjacent to each other.
III. A is sitting twelfth to the right of C.
(A) Only I and II (B) Only III and II
(C) Only I and III (D) Only I
(E) Only III

28. How many people are sitting around the circular table?

- (A) 18 (B) 19
(C) 16 (D) 14
(E) 15

29. The number of people sitting between H and _____ is _____, when counted in clockwise direction starting from H.

- (A) D, six (B) A, eight
(C) E, two (D) C, eleven
(E) B, nine

30. If a meaningful word can be formed using the 2nd, 4th, 7th and 8th letters of the word "WORRIEDLY" from the left end using only once, then what is the first letter from the right end of the word formed? If no such word can be formed, then mark X as your answer while if more than one such word can be formed, then mark Z as your answer

- (A) Z (B) D
(C) L (D) X
(E) O

31. How many pairs of digits are there in the number '96358741' which have as many numbers between them as in the natural number series when counted from both forward and backward directions?

- (A) One (B) Two
(C) None (D) Three
(E) Four

32. If a 3 – letter meaningful English word is formed by all the consonants of the word 'CRYSTAL', then which of the following will be third letter of the word thus formed from the left end? If more than one such meaningful word can be formed, then select 'A' as your answer. If no meaningful word is formed, then select 'B' as your answer.

- (A) R (B) Y
(C) T (D) B
(E) A

33. How many pairs of letters are there in the word "CONCEPT" which has as many letters between them as in the English alphabetical series when counted from both sides?

- (A) None
(C) Three
(E) More than three

- (B) One
(D) Two

34. Ross starts from a central park, moves 5km towards east, and then takes a left and moves 15km. He then takes a right turn and moves another 20 km. Finally, he takes a right turn and walks 30 more Km where he meets his friend Rachel. In which direction is Rachel present with respect to the starting position.

- (A) East (B) South-East
(C) South (D) North
(E) South-West

35. In the given question, four – letter clusters are alike in some manner. Spot the odd one out.

- (A) BRFV (B) PWTZ
(C) LTPX (D) MLQP
(E) ESIW

Quantitative Aptitude

Directions [36 – 41]: Read the data carefully and answer the following questions.

Train number 22460, Baba Dham Express runs from Anand Vihar to Madhupur. The table below shows the number of seats vacant in the General quota and percentage of seats booked for different classes of travel on train, namely second seating (2S), sleeper (SL), AC 3 – tier (3A), AC 2 – tier (2A) and AC 1 – tier (1A).

Note: Total number of seats for a particular class = number of seats booked + number of seats vacant in that class.

Note: The order of classes in decreasing order is 1A>2A>3A>SL>2S

Class	Number of vacant seats	Percentage of seats booked
2S	12	98
SL	56	92
3A	42	86
2A	44	78
1A	9	94

36. Find the sum of the total seats booked in all the classes of the Baba Dham Express.

- (A) 1877 (B) 1787
(C) 1887 (D) 1687
(E) None of these

37. Total number of seats in 2S and 2A classes together are how much percent more/less than the total number of seats in SL and 3A classes together?

- (A) 12.5 (B) 50
(C) 25 (D) 20
(E) 18.75

38. Total number of vacant seats are approximately what percent of the total number of seats in the train?

- (A) 8.12 (B) 8.36
(C) 9.28 (D) 9.45
(E) 20

39. If the ratio of male to female who booked the seats in class 3A is 25:18 and the ratio of female to male who booked the seats in class 2A is 6:7, find the

difference between the total number of males who booked seats in class 3A and class 2A together and the total number of seats booked in class 1A.

- (A) 83 (B) 39
(C) 84 (D) 81
(E) None of these

40. If seats in a particular class is vacant, seats of the immediate lower class automatically get upgraded to that particular class to fill the vacant seats in that class, find the total number of vacant seats in class SL after the completion of the upgradation process. Upgradation from lower class to next higher class creates vacant seats in the lower class.

- (A) 163 (B) 0
(C) 14 (D) 13
(E) None of these

41. Find the ratio of the total seats booked in class 2A to the total number of seats in class 3A.

- (A) 26:43 (B) 2:3
(C) 13:25 (D) 11:75
(E) 22:129

42. A worker of P – mart put 7 sacks of rice in a line. All sacks are different in weight. The average weight of all 7 sacks is 29 kg. The average weight of the first three sacks is 31 kg. The weight of fourth sack is 10 kg more than the weight of fifth sack, while the average weight of sixth and seventh sack is 3 kg less than the average weight of first three sacks. Find the weight of fourth sack.

- (A) 34 kg (B) 32 kg
(C) 31 kg (D) 30 kg
(E) None of these

43. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I. $x^2 + 11x - 12 = 0$ II. $y^2 + 27y - 152 = 0$

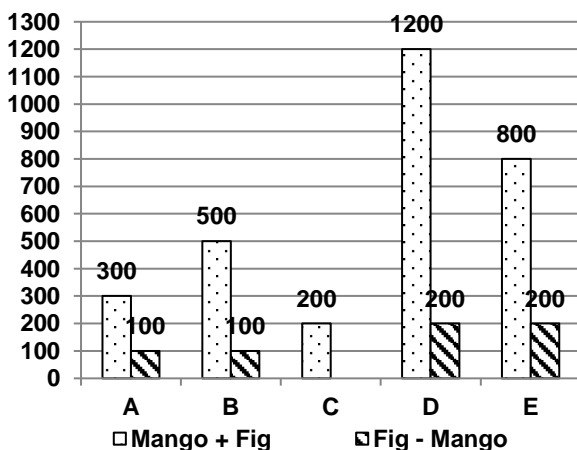
- (A) $x < y$ (B) $x > y$
(C) $x \leq y$ (D) $x \geq y$
(E) $x = y$ or relationship cannot be established

44. In the following question, two equations I and II are given. Solve both the equations carefully and choose the correct option.

I. $x^2 + 4x - 45 = 0$ II. $y^2 + 12y - 45 = 0$

- (A) $x > y$ (B) $x < y$
(C) $x = y$ or no relation can be established between x and y
(D) $x \geq y$ (E) $x \leq y$

Directions [45 – 48]: The bar graph given below shows the sum and difference of mango and fig ice – cream with 5 different persons.



45. If price of one mango and fig ice – cream is Rs.10, Rs.20 respectively. If A sells all his ice – creams then find money earned by him?

- (A) Rs.5000 (B) Rs.6000
(C) Rs.7000 (D) Rs.8000
(E) Rs.1000

46. If B eats 20% of mango ice – cream and 30% of fig ice – cream himself. Then find how many ice – creams are left with him?

- (A) 370 (B) 470
(C) 570 (D) 670
(E) 870

47. If another person F has mango ice – creams 100 more than that of E and fig ice – creams twice of the fig ice – creams with C. Then find total ice – creams with F?

- (A) 600 (B) 300
(C) 400 (D) 500
(E) 200

48. If the ratio of fig ice cream available with G to that of fig ice cream available with A is 2:1, then the average of mango ice cream available with B, C and E is the number of fig ice cream available with another person G. What is the percentage?

- (A) 90% (B) 80%
(C) 70% (D) 50%
(E) 60%

Directions [49 – 53]: Read the data carefully and answer the following questions.

There are 5 bakeries A, B, C, D and E and each of them sold three different flavoured cakes on a particular day. The three flavours are chocolate, vanilla, and strawberry.

Pie chart given below shows the degree distribution of number of chocolate cakes sold by each bakery.

Sum of number of chocolate cakes sold by each bakery is 180.

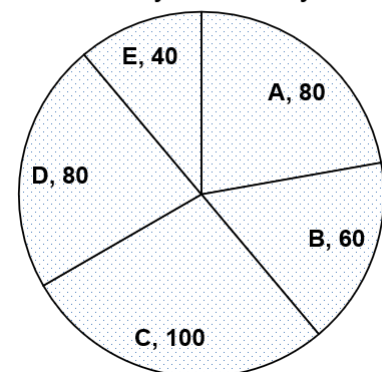


Table given below shows the number of vanilla cakes sold as per cent of that of chocolate cakes sold by each bakery and also shows the ratio of number of vanilla cakes sold to that of strawberry cakes sold by each bakery.

Bakeries	No. of vanilla cakes sold as per cent of that of chocolate cakes sold	Ratio of no. of vanilla cakes sold to that of strawberry cakes sold
A	80%	2: 3
B	120%	4: 5
C	80%	5: 3
D	75%	5: 7
E	140%	4: 5

49. Number of vanilla cakes sold by bakeries D and E together is what per cent of that sold by bakery C?
 (A) 145% (B) 130%
 (C) 150% (D) 135%
 (E) 140%
50. If bakery A sold its chocolate cakes at Rs.450 per piece, vanilla cakes at Rs.400 per piece and strawberry cakes at Rs.300 per piece, then find the total amount received by bakery A?
 (A) Rs.42500 (B) Rs.45200
 (C) Rs.43400 (D) Rs.44300
 (E) Rs.42400
51. Find the difference between total number of cakes sold by B to that sold by C?
 (A) 4 (B) 8
 (C) 3 (D) 7
 (E) 5
52. Total number of vanilla cakes and strawberry cakes together sold by bakery C is what per cent more than the number chocolate cakes sold by bakery C?
 (A) 32% (B) 24%
 (C) 35% (D) 28%
 (E) 30%
53. Find the average of total number of cakes sold by bakery B and that sold by bakery E?
 (A) 95 (B) 97
 (C) 92 (D) 99
 (E) 96
54. Find the wrong term in the series given below.
 25, 52, 89, 130, 193, 260
 (A) 52 (B) 260
 (C) 193 (D) 89
 (E) 130
55. In the following question, a number series is given in which one term is wrong. Find out the wrong term.
 6615, 1470, 735, 105, 35, 14, 7
 (A) 35 (B) 735
 (C) 7 (D) 105
 (E) 14
56. In each of the following questions, a number series is given in which one term is wrong. Find out the wrong term.
 31, 32, 28, 37, 21, 42
 (A) 32 (B) 37
 (C) 42 (D) 21
 (E) 28
57. Find the next term in the series.
 6, 31, 81, 156, 256, ?
 (A) 271 (B) 291
 (C) 348 (D) 317
 (E) 381
58. Find the missing term in the series.
 17, ?, 24, 50, 113, 237, 452
 (A) 23 (B) 17
 (C) 20 (D) 21
 (E) 22
59. The number of Mathematics books, Hindi books and English books in a library are in the ratio of 6: 5: 7 respectively. If 30 books of each subject are added, then the respective ratio becomes 8: 7: 9 in the library. Find the total number of Mathematics books, Hindi books and English books in the library after increase.
 (A) 336 (B) 480
 (C) 360 (D) 384
 (E) 396
60. Persons A and B are 54 km apart initially and they started travelling towards each other simultaneously. When they met after 48 min, it is found that A travelled 2 km more than B. What is the speed of person A?
 (A) 25 km/h (B) 30 km/h
 (C) 35 km/h (D) 40 km/h
 (E) 45 km/h
61. The sum of perimeter of a semi – circle and the perimeter of a square is 324 cm, and the ratio of side of a square and radius of a semicircle is 9: 14, then find the area of the square?
 (A) 81 cm² (B) 729 cm²
 (C) 324 cm² (D) 1296 cm²
 (E) 2025 cm²
62. M, N and O jointly start a business in such a manner that M will invest his capital Rs.13000 for 18 months, N will invest his capital Rs.16800 for 15 months and O will invest his capital Rs.20000 for 9 months. If the profit from the business is Rs.18500, then find the sum of difference between share of M and N and difference between share of N and O.
 (A) Rs.1500 (B) Rs.2500
 (C) Rs.2000 (D) Rs.3000
 (E) None of these
63. X, Y and Z can do a certain piece of work in 10, 15 and 25 days respectively. They started the work together but X left the job 2 days before completion of work, Z left the work 1 day before completion of work. Find total days taken to complete the work?
 (A) 6 days (B) 7 days
 (C) 8 days (D) 9 days
 (E) 10 days
64. What approximate value should come in place of (?) in the expression given below?
 $79.99\% \text{ of } 25.05 - 9.9 \times 117.11 \div 9.11 = ?$
 (A) – 80 (B) – 90
 (C) 100 (D) – 110
 (E) 80
65. What approximate value will come in place of question mark (?) in the following question?
 $(39.99 \times 15.18) - (24.12 \times 9.99) - (0.99 \times 72.02) = ?$
 (A) 276 (B) 322
 (C) 288 (D) 250
 (E) 300
66. There are some balls numbered from 1 to 22 in a bag. A ball is drawn at random, what is the probability that the ball drawn has a number which is a multiple of 3 or 5?
 (A) 5/11 (B) 6/11
 (C) 7/11 (D) 8/11
 (E) 9/11
67. The sum of present ages of three friends A, B and C is 86 years. Four years ago, the ages of A and B were in the ratio 3: 2 respectively. If C is 4 years elder to B, then find the present age of B.
 (A) 32 years (B) 20 years
 (C) 24 years (D) 30 years
 (E) 28 years

68. By selling a mobile phone for Rs. 31160, a dealer suffers loss of 5%. At what price should he sell it to gain 12%?
 (A) Rs. 36736 (B) Rs. 32476
 (C) Rs. 30542 (D) Rs. 38956
 (E) Rs. 64164
69. A purifier had a total of 15 valves among which few were connected to fill the purifier while the rest of the valves were used to drain the purified water. Each of the valves used for the purpose of filling could fill the purifier in 15 hours while each of the drain valves would take 30 hours to drain the purifier. If all the pipes are kept open and if it took 2 hours to completely fill the purifier then what % of the total pipes were reserved for draining purpose?
 (A) 33.33% (B) 44.44%
 (C) 39.39% (D) 48.50%
 (E) 47.65%
70. Two successive discounts of 25% and y% were given on the marked price of a Bluetooth earphone. Find the value of y if sum of the marked price and the selling price is Rs. 2820 and their difference is Rs.1020.
 (A) 25% (B) 37.5%
 (C) 31.25% (D) 20%
 (E) 18.75%

English Language

71. Which of the following phrases (I), (II), and (III) given below the sentence should replace the phrase printed in bold to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct phrase(s) to be used in the sentence. If the sentence is correct as it is, mark 'No Improvement', as the answer.
 Rahul **finally told to me** the problem he had been facing for a year now.
 I. Finally informed me
 II. Eventually revealed to me
 III. Finally explained to me
 (A) Only I and II (B) All I, II, and III
 (C) Only II (D) Only III
 (E) No Improvement
72. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.
 No sooner I had (A)/ got into my(B)/ car than a black(C)/ cat crossed my path(D)/ **followed by/ another similar cat.**
 (A) C (B) B
 (C) A (D) E
 (E) No error
73. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.
The boy who/ was so naughty (A) /at the function (B)/ were admired (C)/ **by everyone /who attended the function.**

- (A) D (B) A
 (C) B (D) C
 (E) No error

74. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.
 Neither the father (A)/ nor the children (B)/ is able to withstand (C)/ the cold weather outside (D) / **as they have / no place to live.**
 (A) D (B) A
 (C) B (D) No error
 (E) C
75. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.
This / never costs (A)/ anything to speak of (B)/ unless / you don't plant (C)/ more than enough (D).
 (A) D (B) A
 (C) B (D) C
 (E) No error
76. In the following question, a sentence is given with four words marked as (A), (B), (C), and (D). Choose the option with pair(s) of the words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required, mark 'No change required' as your answer.
 Elephants can lower **than (A)** overall temperature by more **their (B)** ten degrees Celsius by **simply (C)** flapping their massive ears to **create (D)** wind.
 (A) A – B and C – D (B) A – C and B – D
 (C) B – D (D) A – B
 (E) No change required
77. In the following question, a sentence is given with four words marked as (A), (B), (C), and (D). Choose the option with pair(s) of the words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required, mark 'No change required' as your answer.
 As the **expanded (A)** of the University of Texas, Austin has **home (B)** as a **research (C)** and development **centre (D)** for defence.
 (A) A – B and C – D (B) A – C and B – D
 (C) B – D (D) A – B
 (E) No change required
78. In the following question, a sentence is given with four words marked as (A), (B), (C), and (D). Choose the option with pair(s) of the words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required, mark 'No change required' as your answer.
 Peasants were **society (A)** of their lowly place in **aware (B)** and became less **remaining (C)** to support the **willing (D)** elements of the feudal system.
 (A) A – B and C – D (B) A – C and B – D
 (C) B – D (D) A – B
 (E) No change required

79. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.
He would frequently go for a swim, then he would come and talk to us.
 (A) Often he would (B) He is frequently
 (C) He would be (D) No correction required
 (E) Often he would be
80. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.
 I am eighteen years old **and my brother nineteen**.
 (A) and my brother is nineteen
 (B) and mine brother nineteen
 (C) and my brother nineteen's
 (D) and mine brother's nineteen's
 (E) No correction required
81. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.
 Navratri **has been most popular celebrations** of the ultimate source of power that is the nine forms of Nav Durga.
 (A) should be a popular celebration
 (B) is the most popular celebration
 (C) can be popularly celebrated as
 (D) will be popularly celebrated as
 (E) No correction required
82. In the given question, three sentences are given which may or may not be correct grammatically or contextually. Mark the option as your answer, which contain(s) the sentences which is/are grammatically or contextually incorrect.
 A. His absence of mind while driving nearly caused an accident.
 B. Some students see it as contributing little or anything to the overall proposal task.
 C. They neither pressed him on the issue nor thought less of him for showing his emotions.
 (A) Only A (B) Only B
 (C) Only C (D) B and C
 (E) A and B
83. In the given question, three sentences are given which may or may not be correct grammatically or contextually. Mark the option as your answer, which contain(s) the sentences which is/are grammatically or contextually incorrect.
 A. The service has become heavily reliant on government support.
 B. There are no mountains between the Atlantic Ocean to the St. Lawrence River.
 C. The soldiers were in civilian clothes, to make their presence less obtrusive.
 (A) A and C (B) B and C
 (C) Only A (D) Only B
 (E) Only C
84. In the question given below, a sentence is divided into six parts, where the bold parts are grammatically correct. Out of the other four parts, one of the parts may contain an error. Identify the part that contains the error and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error' as your answer.
Our curtains/ are delcater and (A)/ costlier than those(B)/ of Mrs Ben's, so(C)/ they need(D)/ **more handling.**
 (A) B (B) D
 (C) A (D) C
 (E) No error
85. In the question given below, a sentence is divided into six parts, where the bold parts are grammatically correct. Out of the other four parts, one of the parts may contain an error. Identify the part that contains the error and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error' as your answer.
 Each person are(A)/ supposed to follow(B)/ **the traffic guidelines/ otherwise he/** or she would need(C)/ to pay the fine(D).
 (A) A (B) B
 (C) C (D) D
 (E) No error
86. In the question given below, a sentence is given with two blanks, followed by five options, each having two words that may or may not fit the blanks. Choose the one that gives the correct words that fit in the blanks.
 Most of us _____ that our actions have a significant _____ on the environment.
 (A) Imagination, affect (B) Recognise, impact
 (C) Explain, the relation (D) Fails, effect
 (E) Affects, realise
87. In the question given below, a sentence is given with two blanks. Choose the correct combination of words that fit in the sentence.
 As the pandemic has continued and workers' flexible work habits have become more _____, a full – time return to the office _____ to be a thing of the past.
 (A) Achieved, agreed (B) Restrained, appeared
 (C) Constant, seemingly (D) Ingrained, appears
 (E) Entrench, think
88. The following question consists of four/five sentences labelled A, B, C, D, and E which when logically arranged form a coherent paragraph. Choose the option that gives the correct order.
 A. 'Sonny', as he's known, is a bit of a rogue.
 B. People tend to be taken aback, but really there is no need to worry.
 C. He's a warm – hearted, sensitive guy, and spellbinding in conversation.
 D. In truth he's an amazingly fit and healthy 90 – year – old.
 (A) BADC (B) BCDA
 (C) BDCA (D) ACDB
 (E) ABDC
89. In the given question, a sentence has been broken into five parts and the parts are jumbled. Choose the option which provides the correct order to rearrange the parts to form a grammatically and contextually meaningful sentence.

- A. proportion of 18 – to – 29 – year – old Americans who live with their
 B. higher than at any time since the Great Depression
 C. parents has increased during the COVID – 19 pandemic, perhaps you
 D. when the Pew Research Centre recently reported that the
 E. saw some of the breathless headlines hyping how it's
 (A) ACDBE
 (B) None of the orders is correct
 (C) BCADE
 (D) ACEBD
 (E) DACEB

90. In the question given below, a sentence is given with two blanks, followed by five options, each having two options that may or may not fit in the blanks. Choose the one that gives the correct pair of words for the blanks.

Families on the base had been _____ for months about a foul odour and taste in their water, as well as illnesses _____ from vomiting to headaches, stomach pain, burning skin, and diarrhoea.

- (A) Cadging, varying (B) Complaining, ranging
 (C) Tenacious, assorted (D) Reporting, dragging
 (E) Register, differing

91. In the question given below, a sentence is given with two blanks, followed by five options, each having two options that may or may not fit in the blanks. Choose the one that gives the correct pair of words for the blanks.

Chemical fertilisers have played a/an _____ role in increasing agricultural output, however, the _____ on chemical fertilisers to increase agricultural output has major long – term consequences.

- (A) Important, reliance
 (B) Significant, dependent
 (C) Futile, interdependent
 (D) Predominance, experience
 (E) Reliant, important

92. In the question given below, a sentence is given with two blanks, followed by five options, each having two options that may or may not fit in the blanks. Choose the one that gives the correct pair of words for the blanks.

If community management systems are instituted now, the environment _____, and female literacy increased rapidly, it should be possible to see _____ decreases in population growth rates in these areas.

- (A) Assured, kinaesthetic (B) institutes, abhorrent
 (C) Regenerated, rapid (D) Constructed, swiftly
 (E) Build, dimly

Directions [93 – 100]: Read the passage carefully and answer the questions that follow.

The definition of biodiversity loss is described as the loss of life on Earth at various levels, ranging from reductions in genetic diversity to the collapse of entire ecosystems. In addition to its intrinsic value, biodiversity underpins ecosystem services, providing the backbone of the global economy.

The rate of loss has rapidly increased in recent years, to the point where many scientists believe that the world is currently experiencing a sixth mass **extinction**. Previous mass extinction events saw the

existence of dinosaurs wiped out completely as well as the disappearance of more than 95% of all species living at the time.

Biodiversity loss not only results in species extinction, but it also affects humans by depriving humanity of accessing services that natural ecosystems provide, whether it be the wealth of oxygen that we breathe or the benefits of pollination provided by animals in ensuring global food security. While biodiversity loss can occur naturally from more permanent ecological changes in ecosystems, landscapes, and the global biosphere, the current rapid rate of loss is a direct result of **rampant** human activity since the Industrial Revolution.

The single biggest contributor to global biodiversity loss is undoubtedly land and forest clearing to make way for urban and agricultural development. The latter of which has caused the loss of millions of hectares of trees to support the growing cattle and livestock industries, as well as mining activities. These ever – expanding industries are driven by global meat consumption, demand for commodities like paper and wood, and resources such as gold and other valuable minerals.

Decades of **persistent** land clearing means that we have lost significant amounts of natural habitats. Since forests especially are home to more than 80% of all terrestrial species of animals, plants and insects on the planet, millions of species have lost critical habitats to find shelter from prey and for reproduction, as well as increased food competition, causing population decline for many animals (and plants).

93. According to the above passage, biodiversity loss is
 (A) the biggest threat to human beings
 (B) the depletion of natural resources
 (C) the extinction of many animal species
 (D) the loss of life on Earth at various levels
 (E) the inability to preserve the quality of natural resources

94. As per the passage, why have we lost significant amounts of natural habitats?
 (A) Due to changes in climate
 (B) Due to continuous land clearing
 (C) Because of biodiversity loss
 (D) Because of the depletion of natural resources
 (E) All of the above

95. As per the passage, the biggest reason for biodiversity loss is
 (A) extinction of many species
 (B) destruction of land and forest
 (C) shortage of water and other resou
 (D) depletion of oxygen in the atmosphere
 (E) change in the climate

96. Which of the following is the correct meaning of – **rampant**?
 (A) reverse activities
 (B) ruthless destruction
 (C) spreading unchecked
 (D) the slow increase in something
 (E) wrong activities

97. According to the above passage, what has increased in recent years?
 (A) The rate of biodiversity loss
 (B) Depletion of the ozone layer
 (C) Pollution in the environment
 (D) Extinction of plant species
 (E) Depletion of coral reefs

98. Which of the following words is an antonym of the word – **extinction**?
- (A) allocation (B) destruction
(C) prevention (D) erosion
(E) extant
99. As per the passage, biodiversity loss has deprived human beings from
- (A) Discovering the natural resources
(B) Exploring natural flora and fauna
(C) Accessing services provided by natural ecosystems
(D) Accessing clean drinking water
(E) Fertile soil
100. Which of the following words can replace the word **persistent** without changing the meaning of the sentence?
- (A) gradual (B) shaky
(C) irresolute (D) incessant
(E) unsteady

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Reasoning Aptitude

1. Answer: (D)

Six persons sit between D and H.

Case 1:

H _ _ _ _ _ D _ _ _ _ _

Case 2:

_ _ _ _ _ D _ _ _ _ _ H

M sits fourth to the right of H and immediate left of R.

Case 1:

H _ _ M R D _ _ _ _ _

Case 2:

_ _ _ _ _ D _ _ _ _ _ H _ _ M R

R sits second from one of the ends of the row. Thus, Case 1 gets cancelled.

Case 2:

_ _ _ _ _ D _ _ _ _ _ H _ _ M R

Five persons sit between D and F, who sits second to the left of V.

V sits fourth from one of the ends of the row.

_ F V _ _ D _ _ _ _ _ H _ _ M R

This is the final arrangement.

21 persons are sitting in a row.

2. Answer: (A)

V sits fourth to the left of D.

3. Answer: (A)

M went on Wednesday. The Lead was the second last person to go.

PERSON	DESIGNATION	DAY
		MONDAY
		TUESDAY
M		WEDNESDAY
		THURSDAY
		FRIDAY
	Lead	SATURDAY
		SUNDAY

The HR went on a consecutive day to the Lead. Two people went between N and the HR.

Case 1:

PERSON	DESIGNATION	DAY
		MONDAY
N		TUESDAY
M		WEDNESDAY
		THURSDAY
	HR	FRIDAY
	Lead	SATURDAY
		SUNDAY

Case 2:

PERSON	DESIGNATION	DAY
		MONDAY
		TUESDAY
M		WEDNESDAY
N		THURSDAY
		FRIDAY
	Lead	SATURDAY
	HR	SUNDAY

R went immediately after O who is the MD.

Case 1:

PERSON	DESIGNATION	DAY
		MONDAY
N		TUESDAY
M		WEDNESDAY
O	MD	THURSDAY
R	HR	FRIDAY

	Lead	SATURDAY
		SUNDAY

Case 2a:

PERSON	DESIGNATION	DAY
O	MD	MONDAY
R		TUESDAY
M		WEDNESDAY
N		THURSDAY
		FRIDAY
	Lead	SATURDAY
	HR	SUNDAY

Case 2b:

PERSON	DESIGNATION	DAY
		MONDAY
		TUESDAY
M		WEDNESDAY
N		THURSDAY
O	MD	FRIDAY
R	Lead	SATURDAY
	HR	SUNDAY

Three people went between R and the person who is the CEO. So, case 2a is invalid.

Case 1:

PERSON	DESIGNATION	DAY
	CEO	MONDAY
N		TUESDAY
M		WEDNESDAY
O	MD	THURSDAY
R	HR	FRIDAY
	Lead	SATURDAY
		SUNDAY

Case 2b:

PERSON	DESIGNATION	DAY
		MONDAY
	CEO	TUESDAY
M		WEDNESDAY
N		THURSDAY
O	MD	FRIDAY
R	Lead	SATURDAY
	HR	SUNDAY

The associate went immediately after P. S went before Q. Q is senior to M, who is senior to N. So, case 2b is invalid.

Case 1:

PERSON	DESIGNATION	DAY
P	CEO	MONDAY
N	Associate	TUESDAY
M	Manager	WEDNESDAY
O	MD	THURSDAY
R	HR	FRIDAY
S	Lead	SATURDAY
Q	Chairman	SUNDAY

O went on Thursday.

4. Answer: (A)

S is the lead.

5. Answer: (B)

4 people went after the Manager.

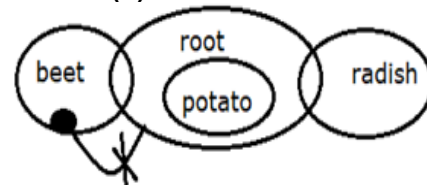
6. Answer: (E)

All statements are true.

7. Answer: (A)

N went on Tuesday.

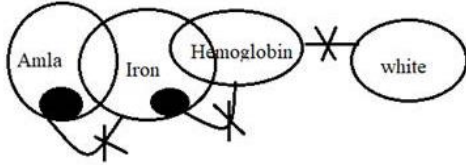
8. Answer: (A)



Some potato are not radish: There is a possibility that all potato are radish. Conclusion I and II do not

follow. But (I) is negative and (II) is positive statement. So, either (I) or (II) follows.

9. **Answer: (D)**



All Iron can never be White. Some iron are hemoglobin and no hemoglobin is white. So, I follows.

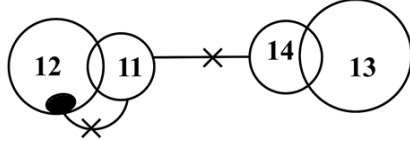
No Hemoglobin is Amla. Some Iron can be Amla and all hemoglobin can be iron. So, II do not follow.

10. **Answer: (B)**

The given statements are,

Only a few 12's are 11's. Some 14's are 13's. No 14's are 11's.

The basic minimum overlapping diagram is,



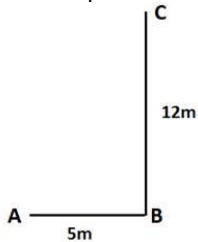
Here, all 13's can never be 11's and some 12's are not 11's.

Hence, only conclusion II follows.

11. **Answer: (E)**

Statement I:

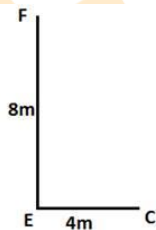
Point B is in 5m east of point A. Point C is 12m north of point B.



We do not have any further information. Hence, statement I alone is not sufficient.

Statement II:

Point E is 4m west of point C. Point F is 8m north of point E.

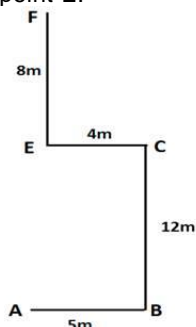


We do not have any further information. Hence, statement II alone is not sufficient.

Statement I & II:

Point B is in 5m east of point A. Point C is 12m north of point B.

Point E is 4m west of point C. Point F is 8m north of point E.



Here we get that point F is in **north – east** direction from point A.

Therefore, data in both statements I and II together are necessary.

Hence, 'e' is the correct option.

12. **Answer: (D)**

Karamchand was married to Putlibai. Karsandas was the unmarried son of Karamchand. Putlibai was the mother of Laxmidas who is a male.

Karamchand(m) = Putlibai (f)

Laxmidas(m) = Karsandas(m)

Kasturba was the daughter – in – law of Karamchand. Manilal was the son of Mohandas. Hiralal was the son of Kasturba and the sibling of Manilal.

Karamchand(m) = Putlibai (f)

Laxmidas(m) = Karsandas(m)

Mohandas(m) = Kasturba(f)

Hiralal(m) = Manilal(m)

Hiralal is the nephew of Karsandas.

13. **Answer: (C)**

Kasturba is the sister – in – law of Laxmidas.

14. **Answer: (A)**

It is given that,

The eight friends are A, B, C, D, E, F, G, and H.

The number of friends who wear smaller shirts than C is thrice the number of friends who wear larger shirts than H.

The size of the second largest shirt is 44, which is not worn by H.

E wears a larger shirt than H and only two friends wear smaller shirts than B.

Hence, C wears a size 44 shirt. Only two friends wear larger shirts than H and six friends wear smaller shirts than C.

We get,

E > C (44) > H > ___ > ___ > B > ___ > ___

A wears an immediate larger shirt than G, who wears a size, which is a perfect square.

D wears an immediate smaller shirt than F.

F wears a smaller shirt than A and wears a size which is divisible by three and five both.

Hence, the only possibilities are that G wears a size 36 shirt and F wears a size 30 shirt. (The only possibility for a perfect square is 36 and the only possible size divisible by 3 and 5 is 30.)

The final arrangement is,

E > C (44) > H > A > G (36) > B > F (30) > D

Here, **three** friends wear larger shirts than A.

15. **Answer: (C)**

The sum of shirt sizes worn by A and G is 74.

Hence, the size of A's shirt = $74 - 36 = 38$.

Hence, the possible sizes of H's shirt are **40 and 42**.

16. **Answer: (E)**

Here, the possible size of B's shirt is **34**.

17. **Answer: (D)**

$Q < R$

$R > A > Z = E \leq D$

So, statement I does not follow.

$R > A > Z = E$

$N < C \leq Q < R$

So, statement II does not follow.

18. **Answer: (C)**

The given statement is: $H \geq T \leq U = P$; $T \geq X < C > K$

$U \geq T \geq X < C$. Here, the relation between U and C cannot be established. So, conclusion (a) is false and also conclusion (d) is false.

Also, $U > C$; $U = C$ and $U < C$. So, either (a) or (d) follows.

$H \geq T \geq X < C > K$. Here, the relation between K and H cannot be established. So, conclusion (b) is false.

$X \leq T \leq U = P$. Here, $P \geq X$. So, conclusion (e) is true.

19. **Answer: (E)**

The coffee chocolate box is kept at an even number stack below stack 5.

Only one box is kept between the Coffee box and the Pulse box, which has the highest number of chocolates.

Highest chocolates = 17

Stack	Chocolates	Quantity	Chocolates	Quantity	Chocolates	Quantity
	Case 1		Case 2		Case 3	
6	Pulse	17				
5						
4	Coffee		Coffee		Pulse	17
3						
2			Pulse	17	Coffee	
1						

Two boxes are kept between the box which has prime number chocolates and the Gem box, which is immediately below the Pulse box.

Thus, Case 2 gets cancelled.

Prime number remaining = 2, 11

Stack	Chocolates	Quantity	Chocolates	Quantity
	Case 1		Case 3	
6	Pulse	17		2 / 11
5	Gem			
4	Coffee		Pulse	7
3			Gem	
2		2 / 11	Coffee	

The Munch Box is immediately below the Perk box, which has a number of chocolates which is cube number.

Cube number = 8.

This is not possible in Case 3, thus it is cancelled.

Stack	Chocolates	Quantity
	Case 1	
6	Pulse	17
5	Gem	
4	Coffee	
3	Perk	8
2	Munch	2 / 11
1		

Now, the only remaining is Melody.

The number of chocolates in the Gems box is five more than chocolates in the Melody box. Gems is kept above Melody.

Thus, only possibility of this is –

Gem = 9

Melody = 4

Stack	Chocolates	Quantity
6	Pulse	17
5	Gem	9
4	Coffee	
3	Perk	8
2	Munch	2 / 11
1	Melody	4

The number of chocolates in the Coffee box is more than the number of chocolates in the Munch box.

Stack	Chocolates	Quantity
6	Pulse	17
5	Gem	9
4	Coffee	11
3	Perk	8
2	Munch	2
1	Melody	4

This is the final arrangement.

As Melody chocolate box is kept at the bottommost stack no boxes are below that.

20. **Answer: (C)**

Gem = 9

Coffee = 11

Average = $(11 + 9) / 2 = 10$

21. **Answer: (E)**

Perk chocolate box is kept immediately below Coffee chocolate box and it has 8 chocolates which are cube number.

22. **Answer: (B)**

Two students sit between S and N, who sits exactly middle of the row.

Case 1-

Left S _ _ _ N _ _ _ Right

Case 2-

Left _ _ _ N _ _ _ S Right

The student whose age is prime number sits second to the left of P, who sits adjacent to N.

Neither S nor M's age is a prime number.

A prime number between 21 to 27 = 23

Case 1-

Left S _ _ _ N P _ _ _ Right

Case 2-

Left _ _ _ N P _ _ _ S Right

Case 2a-

Left 23 _ _ _ P N _ _ _ S Right

The student whose age is perfect square sits fourth to the right of M.

Perfect square = 25

M sits neither at the end of the row nor adjacent to P.

Neither S nor M's age is a prime number.

Thus, Case 2a gets cancelled.

Case 1-

Left S M _ _ _ N P _ _ _ Right

Case 2-

Left _ _ _ M _ _ _ N P _ _ _ S Right

The student whose age is perfect cube sits third to the left of Z, whose age is 26.

Perfect cube = 27

Thus, Case 2 gets cancelled.

Case 1-

Left S M _ _ _ N P _ _ _ Z Right

T sits immediate right of the youngest student.

Youngest student = whose age is 21.

The age of P is neither 21 nor 24.
Thus, the only possibility of this is -

S	M	T	N	P	Z
Left	21	23	27	22	25
					Right

Now, the only student remains is W and the only age remains is 24.

S	M	T	N	P	W	Z
Left	24	21	23	27	22	25
						Right

This is the final arrangement.

S is 24 years old.

23. **Answer: (C)**

Age of M is 21 and Three persons sit between M and W.

24. **Answer: (A)**

Except P, all other person's age is an odd number.

25. **Answer: (D)**

S is an immediate neighbour of the person whose age is 21.

Similarly, Z is an immediate neighbour of the person whose age is 25.

26. **Answer: (E)**

T sits immediate left of N, whose age is 27.

27. **Answer: (C)**

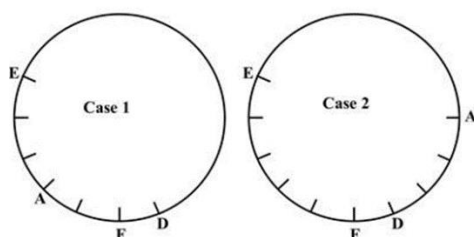
It is given that,

The known people are A, B, C, D, E, F, G, and H.

E is sitting fifth to the left of F, who is sitting immediately to the left of D.

Only two people are sitting between A and D.

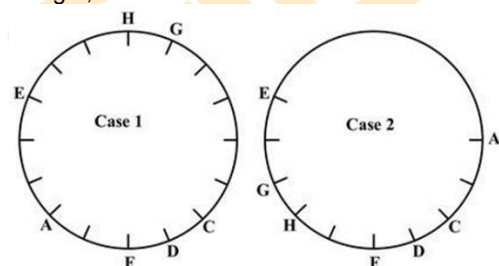
We get,



A is sitting sixth to the right of H, who is sitting immediately to the right of G.

Four people are sitting between G and C, who is sitting adjacent to D.

We get,

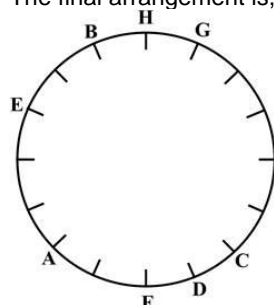


The number of people sitting between B and C is eight, when counted in a clockwise direction starting from C.

Less than eight people are sitting between B and A, when counted in a clockwise direction starting from A. B and A are not sitting adjacent to each other.

Here, case 2 is invalid as B cannot be accommodated.

The final arrangement is,



28. **Answer: (C)**

Here, A is sitting ninth to the left of G and is sitting twelfth to the right of C.

29. **Answer: (A)**

Here, the number of people sitting around the circular table is sixteen.

30. **Answer: (B)**

W	O	R	R	I	E	D	L	Y
1	2	3	4	5	6	7	8	9
O	R	D	L					
nd	4 th	7 th	th					

So, the word formed is LORD.

So, the first letter from the right end is 'D'.

31. **Answer: (D)**

96358741

Forward:

963(5)8(7)41

Backward:

9635(87)41

963(5)874(1)

So, there are three pairs of digits.

32. **Answer: (E)**

CRYSTAL

Four 3 - letter words i.e. Try, Cry, SLY and STY are formed by all the consonants of the word 'CRYSTAL'.

Thus, the answer is 'A'.

33. **Answer: (D)**

CONCEPT

Forward:

C(O)NCEP(T)

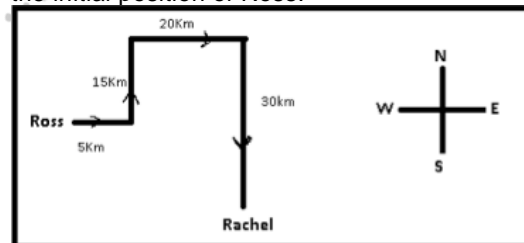
Backward:

C(O)(N)CEPT

So, there are two pairs of letters.

34. **Answer: (B)**

Rachel is in the south-east direction with respect to the initial position of Ross.



Hence, option b.

35. **Answer: (B)**

Here, option (b) is odd.

a) BRV ⇒ B (CDE) F and R (STU) V

b) PWTZ ⇒ P (QRS) T and W (XY) Z

c) LTPX ⇒ L (MNO) P and T (UVW) X

d) MLQP ⇒ M (NOP) Q and L (MNO) P

e) ESIW ⇒ E (FGH) I and S (TUV) W

Quantitative Aptitude

36. **Answer: (B)**

For second sitting (2S) class

Number of vacant seats = 12

Percentage of seats booked = 98

Let the total number of seats in class 2S be 't'

ATQ, 2% of t = 12

⇒ 2t = 1200

⇒ t = 600

Similarly, we calculate the values for all the classes and tabulate them.

Class	Total number of seats	Total vacant seats	Total booked seats
2S	600	12	588

SL	700	56	644
3A	300	42	258
2A	200	44	156
1A	150	9	141

Required sum = $588 + 644 + 258 + 156 + 141$
 $= 1787$

37. **Answer: (D)**

Number of seats in class 2S = 600
 Number of seats in class 2A = 200
 Total number of seats in 2S and 2A classes together = $600 + 200 = 800$
 Number of seats in class SL = 700
 Number of seats in class 3A = 300
 Total number of seats in SL and 3A classes together = $700 + 300 = 1000$
 Required % = $(1000 - 800)/1000 \times 100 = 20\%$

38. **Answer: (B)**

Total number of vacant seats = $12 + 56 + 42 + 44 + 9 = 163$
 Total number of seats in the train = $600 + 700 + 300 + 200 + 150 = 1950$
 Required % = $(163/1950) \times 100$
 $= 8.36\%$ approximately

39. **Answer: (E)**

Total number of seats booked in class 3A = 258
 Ratio of male to female who booked the seats in class 3A = 25:18
 Number of males = $(25/43) \times 258 = 150$
 Number of females = $(18/43) \times 258 = 108$
 Total number of seats booked in class 2A = 156
 Ratio of female to male who booked the seats in class 2A = 6:7
 Number of females = $6/13 \times 156 = 72$
 Number of males = $7/13 \times 156 = 84$
 Total number of males who booked seats in class 3A and class 2A together = $150 + 84 = 234$
 Total number of seats booked in class 1A = 141
 Hence, required difference = $234 - 141 = 93$

40. **Answer: (B)**

Total number of booked seats in the train = 1787
 Total seats in the train = 1950
 After the completion of the upgradation process, all the seats of the classes 1A, 2A, 3A, SL will be filled.
 Vacant seats will be created in the class 2S = $1950 - 1787 = 163$
 Hence, no seats will be vacant in class SL since the sum of the total seats in class 1A, 2A, 3A and SL is less than total booked seats in the train.
 $\Rightarrow 1350 < 1787$

All the vacancy will be created in class 2S only.

41. **Answer: (C)**

Total seats booked in class 2A = 156
 Total number of seats in class 3A = 300
 Required ratio = $156:300 = 13:25$

42. **Answer: (B)**

Sum of weight of all 7 sacks = $29 \times 7 = 203$ kg
 Sum of weight of first three sacks = $31 \times 3 = 93$ kg
 Weight of fifth sack = weight of fourth sack - 10
 Sum of weight of sixth and seventh sack = $(31 - 3) \times 2 = 56$ kg
 Now,
 $93 + \text{weight of fourth sack} + \text{weight of fourth sack} - 10 + 56 = 203$
 $2 \times \text{weight of fourth sack} = 203 - 93 - 46$
 $2 \times \text{weight of fourth sack} = 203 - 139 = 64$
 Weight of fourth sack = $64/2 = 32$ kg

43. **Answer: (E)**

From equation I:
 $x^2 + 11x - 12 = (x - 1)(x + 12) = 0$
 $\Rightarrow x = 1, -12$
 From equation II:

$$y^2 + 27y + 152 = (y + 19)(y + 8) = 0$$

$$\Rightarrow y = -19, -8$$

	X = 1	X = -12
Y = -19	x > y	x > y
Y = -8	x > y	x < y

So, relationship cannot be established between x and y

44. **Answer: (C)**

From I:

$$x^2 + 4x - 45 = 0$$

$$x^2 - 5x + 9x - 45 = 0$$

$$(x + 9)(x - 5) = 0$$

$$x = -9, 5$$

From II:

$$y^2 + 12y - 45 = 0$$

$$y^2 - 3y + 15y - 45 = 0$$

$$(y + 15)(y - 3) = 0$$

$$y = -15, 3$$

When $x = -9$, $y = -15$, then $x > y$

When $x = -9$, $y = 3$, then $x < y$

When $x = 5$, $y = -15$, then $x > y$

When $x = 5$, $y = 3$, then $x > y$

Hence, no relation can be established between x and y.

45. **Answer: (A)**

With person A:

$$\text{Mango} + \text{fig} = 300$$

$$\text{Fig} - \text{mango} = 100$$

on solving these two equations.

$$\text{Mango} = 100, \text{fig} = 200$$

With person B:

$$\text{Mango} + \text{fig} = 500$$

$$\text{Fig} - \text{mango} = 100$$

on solving these two equations.

$$\text{Mango} = 200$$

$$\text{Fig} = 300$$

With person C:

$$\text{Mango} + \text{fig} = 200$$

$$\text{Fig} - \text{mango} = 0$$

on solving these two equations.

$$\text{Mango} = \text{fig} = 100$$

With person D:

$$\text{Mango} + \text{fig} = 1200$$

$$\text{Fig} - \text{mango} = 200$$

On solving these two equations.

$$\text{Mango} = 500, \text{fig} = 700$$

With person E:

$$\text{Mango} + \text{fig} = 800$$

$$\text{Fig} - \text{mango} = 200$$

On solving these two equations.

$$\text{Mango} = 300, \text{fig} = 500$$

Person	Mango	Fig
A	100	200
B	200	300
D	500	700
E	300	500

Mango and fig ice - cream with A is 100, 200 respectively.

$$\text{Money earned} = 100 \times 10 + 20 \times 200 = 1000 + 4000 = ₹5000$$

46. **Answer: (A)**

Mango and fig ice - cream with B is 200, 300 respectively.

$$\text{Required value} = 80/100 \times 200 + 70/100 \times 300 = 160 + 210 = 370$$

47. **Answer: (A)**

$$\text{Mango ice - creams with F} = 100 + 300 = 400$$

$$\text{Fig ice - creams with F} = 2 \times 100 = 200$$

$$\text{Total ice - creams} = 400 + 200 = 600$$

48. **Answer: (D)**

$$\text{Average of mango ice - cream with B, C, E} = (200 + 100 + 300)/3 = 600/3 = 200$$

- Fig ice – cream with G = $200 \times 2 = 400$
 Required percent = $200/400 \times 100 = 50\%$
49. **Answer: (A)**
Bakery A:
 Number of chocolate cakes sold = $180 \times (80^\circ/360^\circ) = 40$
 So, number of vanilla cakes sold = $40 \times (80/100) = 32$
 And number of strawberry cakes sold = $32 \times (3/2) = 48$
Bakery B:
 Number of chocolate cakes sold = $180 \times (60^\circ/360^\circ) = 30$
 So, number of vanilla cakes sold = $30 \times (120/100) = 36$
 And number of strawberry cakes sold = $36 \times (5/4) = 45$
Bakery C:
 Number of chocolate cakes sold = $180 \times (100^\circ/360^\circ) = 50$
 So, number of vanilla cakes sold = $50 \times (80/100) = 40$
 And number of strawberry cakes sold = $40 \times (3/5) = 24$
Bakery D:
 Number of chocolate cakes sold = $180 \times (80^\circ/360^\circ) = 40$
 So, number of vanilla cakes sold = $40 \times (75/100) = 30$
 And number of strawberry cakes sold = $30 \times (7/5) = 42$
Bakery E:
 Number of chocolate cakes sold = $180 \times (40^\circ/360^\circ) = 20$
 So, number of vanilla cakes sold = $20 \times (140/100) = 28$
 And number of strawberry cakes sold = $28 \times (5/4) = 35$
 Number of vanilla cakes sold by bakery C = 40
 Number of vanilla cakes sold by bakery D = 30
 Number of vanilla cakes sold by bakery E = 28
 Required percentage = $[(30 + 28)/40] \times 100 = 145\%$
50. **Answer: (B)**
 Number of chocolate cakes sold by bakery A = 40
 Number of vanilla cakes sold by bakery A = 32
 Number of strawberry cakes sold by bakery A = 48
 So, total amount received by bakery A = $(40 \times 450) + (32 \times 400) + (48 \times 300) = ₹45200$
51. **Answer: (C)**
 Total number of cakes sold by bakery B = $30 + 36 + 45 = 111$
 Total number of cakes sold by bakery C = $50 + 40 + 24 = 114$
 Required difference = $114 - 111 = 3$
52. **Answer: (D)**
 Number of chocolate cakes sold by bakery C = 50
 Number of vanilla cakes sold by bakery C = 40
 Number of strawberry cakes sold by bakery C = 24
 Required percentage = $[(40 + 24 - 50)/50] \times 100 = 28\%$
53. **Answer: (B)**
 Total number of cakes sold by bakery B = $30 + 36 + 45 = 111$
 Total number of cakes sold by bakery E = $20 + 28 + 35 = 83$
 Required average = $(111 + 83)/2 = 97$
54. **Answer: (E)**
 The pattern is as follows:
 $6 \times 4 + 1^2 = 25$
 $8 \times 6 + 2^2 = 52$
 $10 \times 8 + 3^2 = 89$
 $12 \times 10 + 4^2 = 136$
 $14 \times 12 + 5^2 = 193$
 $16 \times 14 + 6^2 = 260$
55. **Answer: (B)**
 Logic for the given series:
 $6615 \div 4.5 = 1470$
 $1470 \div 4 = 367.5$
 $367.5 \div 3.5 = 105$
 $105 \div 3 = 35$
 $35 \div 2.5 = 14$
 $14 \div 2 = 7$
 Hence, wrong term = 735
56. **Answer: (C)**
 Logic for the given series:
 $31 + 1^2 = 32$
 $32 - 2^2 = 28$
 $28 + 3^2 = 37$
 $37 - 4^2 = 21$
 $21 + 5^2 = 46$
 So, wrong term = 42
57. **Answer: (E)**
 The pattern is as follows:
 $6 + 25 \times 1 = 31$
 $31 + 25 \times 2 = 81$
 $81 + 25 \times 3 = 156$
 $156 + 25 \times 4 = 256$
 $256 + 25 \times 5 = 381$
58. **Answer: (B)**
 The pattern is as follows:
 $17 + 1^3 - 1 = 17$
 $17 + 2^3 - 1 = 24$
 $24 + 3^3 - 1 = 50$
 $50 + 4^3 - 1 = 113$
 $113 + 5^3 - 1 = 237$
 $237 + 6^3 - 1 = 452$
59. **Answer: (C)**
 Initial ratio = 6: 5: 7
 Increased ratio = 8: 7: 9
 Here we can see that each term increased by same number as –
 $8 - 6 = 7 - 5 = 9 - 7 = 2$
 So, 2 units = 30 books
 1 unit = 15 books
 $8 + 7 + 9 = 24$ units
 24 units = $15 \times 24 = 360$ books.
 Required answer = 360 books.
60. **Answer: (C)**
 Let speeds of A and B be 'a' km/h and 'b' km/h, respectively.
 Relative speeds of A and B when travelling towards each other = $(a + b)$
 According to the question:
 $54/(a + b) = 48/60 = 4/5$
 $(a + b) = (54 \times 5)/4$
 $(a + b) = 67.5$ (1)
 $[a \times (48/60)] - [b \times (48/60)] = 2$
 $(a - b) = 2 \times (5/4)$
 $(a - b) = 2.5$ (2)
 From (1) and (2):
 $a = (67.5 + 2.5)/2 = 35$
 Speed of A = a
 = 35 km/h
61. **Answer: (B)**
 Let side of the square is $9x$ cm and radius of the semicircle is $14x$ cm.
 According to the question,
 $4 \times 9x + 22/7 \times 14x + 2 \times 14x = 324$
 $\Rightarrow 36x + 44x + 28x = 324$
 $\Rightarrow 108x = 324$
 $\Rightarrow x = 3$
 So, side of the square = $9 \times 3 = 27$ cm

- Hence, area of the square = $27^2 = 729 \text{ cm}^2$
62. **Answer: (B)**
 Total amount invested by M = (13000×18)
 Total amount invested by N = (16800×15)
 Total amount invested by O = (20000×9)
 Ratio of their shares in profit = $(13000 \times 18) : (16800 \times 15) : (20000 \times 9) = 13 : 14 : 10$
 Difference between share of M and N = $18500 \times [(14 - 13)/37] = ₹500$
 Difference between share of N and O = $18500 \times [(14 - 10)/37] = ₹2000$
 Required sum = $500 + 2000 = ₹2500$
63. **Answer: (A)**
 Let total work be (LCM of 10, 15, 25) = 150
 Efficiency of X = $(150/10) = 15$
 Efficiency of Y = $(150/15) = 10$
 Efficiency of Z = $(150/25) = 6$
 Let work get completed in z days.
 $[15 \times (z - 2) + 6 \times (z - 1) + 10 \times z] = 150$
 $15z - 30 + 6z - 6 + 10z = 150$
 $31z - 36 = 150$
 $31z = 186$
 $z = 6$
64. **Answer: (D)**
 $79.99\% \text{ of } 25.05 - 9.9 \times 117.11 \div 9.11 = ?$
 $\Rightarrow 80\% \text{ of } 25 - 10 \times 117 \div 9 = ?$
 $\Rightarrow 80/100 \times 25 - 130 = ?$
 $\Rightarrow 20 - 130 = ?$
 $\Rightarrow ? = -110$
65. **Answer: (C)**
 $(39.99 \times 15.18) - (24.12 \times 9.99) - (0.99 \times 72.02) = ?$
 $(40 \times 15) - (24 \times 10) - (1 \times 72) = ?$
 $600 - 240 - 72 = ?$
 $? = 288$
66. **Answer: (A)**
 Multiple of 3 or 5 = (3, 6, 9, 12, 15, 18, 21, 5, 10, 20)
 Required probability = $10/22 = 5/11$.
67. **Answer: (C)**
 Here, the sum of present ages of three friends A, B and C is 86 years.
 $A + B + C = 86 \dots (i)$
 C is 4 years elder to B. Then,
 $C = 4 + B \dots (ii)$
 Four years ago, the ages of A and B were in the ratio 3: 2 respectively. Then,
 $3: 2 = (A - 4): (B - 4)$
 $3(B - 4) = 2(A - 4)$
 $3B - 12 = 2A - 8$
 $2A = 3B - 4$
 $A = (3B - 4)/2 \dots (iii)$
 Now, from (i), (ii) and (iii), we have
 $(3B - 4)/2 + B + 4 + B = 86$
 $3B - 4 + 2(2B + 4) = 2 \times 86$
 $3B - 4 + 4B + 8 = 172$
 $7B = 172 - 4$
 $7B = 168$
 $B = 24$
 So, present age of B = **24 years**
68. **Answer: (A)**
 Since loss is 5%.
 So selling price = 95% of cost price
 $31160 = (95/100) \times \text{cost price}$
 Cost price = 32800
 Now gain % = 12%
 New selling price = 112% of cost price
 $= (112/100) \times 32800$
 $= ₹36736$
69. **Answer: (A)**
 Let the number of valves allotted to fill the tank be 'y'.
 The number of valves allotted for draining purpose will be $(15 - y)$

A value used for filling fills the purifier in 15 hours.
 So, in 1 hour it can fill $1/15^{\text{th}}$ part of the purifier.
 Similarly, a value used for draining drains the purifier in 30 hours. So, in 1 hour it can drain $1/30^{\text{th}}$ part of the purifier.
 Given, it took 2 hours to fill with all valves open.
 So, the equation becomes
 $(2 \times y)/15 - (2 \times (15 - y))/30 = 1$
 On solving, we get $y = 10$
 Therefore number of valves allotted to fill the purifier = 10
 The number of valves allotted to drain the purifier will be 5
 Percentage of valves allotted for draining purpose = $5/15 \times 100 = 33.33\%$

70. **Answer: (B)**
 Let the marked price and selling price be MP and selling price be SP respectively
 Given, $MP + SP = 2820 \dots (1)$
 $MP - SP = 1020 \dots (2)$
 On solving (1) and (2), we get
 $MP = ₹1920$
 $SP = ₹900$
 ATQ, $1920 \times 3/4 \times (100 - y)/100 = 900$
 $\Rightarrow 144 \times (100 - y) = 9000$
 $\Rightarrow y = 37.5\%$

English Language

71. **Answer: (B)**
 The verb 'tell' is followed by an indirect object (me, him, her, etc.) without 'to'.
 Example sentence: Tanu told him that she is happy. (not: told to him)
 Hence, the phrase requires improvement.
 So, the highlighted phrase should be 'finally told me'.
 The verb 'informed' does not require 'to' after it, and the verbs 'revealed' and 'explained' should be followed by 'to'. All choices I - III are grammatically correct and convey the same meaning as the highlighted phrase.
 Hence, all I, II, and III can replace the highlighted phrase.
 Hence, option b) is correct.
72. **Answer: (C)**
 Part A has an error.
 Whenever adverbs like 'no sooner', 'hardly', 'scarcely', etc. are used at the beginning of a sentence, they are always directly followed by a helping verb which is followed by the subject.
 So, 'I had' should be changed to 'had I'.
 The correct sentence would be - "No sooner had I got into my car than a black cat crossed my path followed by another similar cat."
 Hence, (c) is the correct answer.
73. **Answer: (D)**
 The error is in part C. The subject in the sentence is 'the boy' is singular but the verb that relates the boy in the latter part 'were' is plural. That is the error.
 The correct sentence is: The boy who was so naughty at the function was admired by everyone who attended the function.
 Hence, the correct answer is option (d).
74. **Answer: (E)**
 The error is in part C. In neither nor case, the verb should be based on the noun/pronoun that is nearer. In this case, the noun that is nearer to 'nor' is 'children' which is plural so the corresponding verb should also be plural but here 'is' singular verb is used.

The correct sentence is: Neither the father nor the children are able to withstand the cold weather outside as they have no place to live.

Hence the correct answer is option (e).

75. **Answer: (D)**

'Unless' is equivalent to 'if not'. So, we don't have to use 'not' after unless. It makes the sentence inappropriate. Therefore, we have to omit 'not' after 'unless'. Hence, option (d) is the correct answer.

The correct sentence is: This never costs anything to speak of unless you plant more than enough.

76. **Answer: (D)**

We need a possessive adjective/determiner in place of A to refer to the elephants instead of 'than' to support the sentence, and also, instead of 'their', we need a word that is used for comparison in place of B. That word is 'than'. If we interchange A and B, the sentence will become grammatically correct.

Thus, the answer is option (d).

77. **Answer: (D)**

In its current form, the sentence is not meaningful. If we interchange A and B, the sentence will be meaningful. 'Expanded of the university' is meaningless, and 'home of the University' is correct. The place of B requires a main verb after the helping verb 'has', and the only verb here is 'expanded'. Thus, A and B must be interchanged.

Thus, the answer is option (d).

78. **Answer: (A)**

The sentence requires the interchange of A and B. The place of A requires an adjective which contextually fits to describe the state of peasants, and the most appropriate one is 'aware', as 'remaining' and 'willing' render it meaningless. 'Place in aware' is meaningless, and the place of B requires a noun to locate the place. The only noun contextually fitting is 'society.' 'Less remaining' is also meaningless, and 'less willing' is appropriate. 'Remaining elements of the feudal system' is more contextually appropriate than 'willing elements of the feudal system' as there can't be any such thing. Thus, C and D should also be interchanged.

Thus, the answer is option (a).

79. **Answer: (A)**

In case an adverb describes the 'to be' verb form (is, am, are, was, were), it is placed after the verb. 'Modal verb + be form' is followed by a participle form of verb which is not the given case as go is a base form of verb. Therefore, the correct phrase is 'often he would'.

Hence, option (a) is correct.

80. **Answer: (A)**

In the given sentence, the highlighted phrase is Incorrect because a single verb should be made to serve one subject when the form of the principal verb is appropriate to both the auxiliaries. Other options will make the sentence grammatically Incorrect.

Hence, (a) is the correct answer.

81. **Answer: (B)**

In the given sentence, only the expression "is the most popular celebration" can replace the highlighted part to make the sentence both grammatically correct and contextually meaningful because the helping verb 'is' (present indefinite) is the most suitable verb to be used in this case as the statement resembles a fact. Other options are incorrect because they are grammatically Incorrect.

Hence, (b) is the correct answer.

82. **Answer: (B)**

Sentences A and C have no errors, they are contextually and grammatically correct.

The correct phrases of adverbs that can be used together are – 'seldom or never', 'seldom if never', 'little or nothing', etc. It is incorrect to use 'little or anything' in sentence B.

Hence, option (b) is correct.

83. **Answer: (D)**

Sentences A and C have no errors, they are contextually and grammatically correct.

'Between' is always followed by 'and'. So, the use of 'to' will be grammatically incorrect.

Hence, option (d) is correct.

84. **Answer: (C)**

Part A has an error. There are two types of comparative forms of adjectives; one that ends with – er and the other with two syllable adjectives. The word 'more' is generally used with longer adjectives; 'delicate' is one such word and its comparative form is 'more delicate' and not 'delicater'. Hence, (c) is the correct answer.

85. **Answer: (A)**

Part A has an error. 'Each' is always followed by a singular verb. So, 'are' should be replaced by 'is' in order to rectify the error. Hence, (a) is the correct answer.

86. **Answer: (B)**

A plural verb is required to connect the subject ('us': plural in nature) with the noun 'actions'. So, options d) and e) are incorrect as 'fails' and 'affects' are singular verbs. Also, option a) is incorrect because 'imagination' is a noun.

Both 'recognise' and 'explain' can fill the first blank. When two or more things/persons are to be related, we use the preposition 'with'. So, there must be a relationship 'with' the environment. To fill the second blank with 'relation', the preposition following it must be 'with' whereas in the given sentence the preposition following the blank is 'on'. So, option c) is incorrect as well.

Only option b) is left.

'Recognise' means to accept that something is true or important.

'Impact' means 'to influence something'. So, filling the two blanks with 'recognise' and 'impact' respectively gives the meaning that most people consider it true that their actions influence the environment. This is meaningful.

Hence, option b) is correct.

87. **Answer: (D)**

The first blank requires an adjective that modifies 'work habits' since the sentence describes the 'habits' (noun) of the workers in the pandemic.

'Achieved' (verb) and 'Entrench' (verb) are not adjectives. So, options a) and e) are incorrect.

The sentence talks about events happening in the present (as indicated by the verb 'has continued'). Thus, the second blank should be filled with a verb that conveys present tense as well. 'Appeared' (past tense/participle) and 'seemingly' (adverb) are eliminated. 'Ingrained' means firmly fixed or established; difficult to change. If we fill the second blank with 'appears', the sentence gives the meaning that since such work habits have become difficult to change, a full – time return to the office seems to be a thing of the past. This is contextually and grammatically correct.

Hence, option d) is correct.

88. **Answer: (A)**

ADC forms a triplet. Sentence A introduces the name of the person as he is popularly known and lists one of his characteristics (that he's a bit of a rogue). Sentence D gives clarification for the characteristic stated in A. This is indicated by the fact that begins with the phrase 'in truth'. D must be

followed by C because it lists his positive qualities and is on similar lines as D. This triplet is mentioned in option a). Sentence B acts as an introductory sentence to this triplet. Thus, the correct order is BADC. Hence, a) is the correct answer.

89. **Answer: (E)**

The possessive pronoun 'their' (at the end of part A) needs a noun to immediately follow – the only choice is 'parents' (part C) – AC makes a pair. Also, the pronoun 'you' (at the end of C) can only be followed by, among the rest of the parts, the verb 'saw' (at the start of part E). Thus far, we have ACE.

Part E cannot be the final part of the correct order – it ends with 'it is' – which needs to be completed so as to make a meaningful sentence. Among the remaining parts (B and D), only B is meaningful to immediately follow E – resulting in 'it is higher than' – a perfectly meaningful usage. Thus far, we have ACEB.

Now, part D (which ends with the construct 'reported that the') cannot be the final part in the correct order [need a context ahead to complete the sentence] – in other words, cannot follow B. Thus, D should be the first part in the correct order. We get DACEB as the correct order here.

Answer is option (e).

90. **Answer: (B)**

The sentence is in the past perfect continuous tense. The sentence in this tense is constructed using 'had been + the verb's present participle (root + ing)'. This helps **eliminate options c) and e)** as 'tenacious' (means tending to keep a firm hold of something e.g., 'a tenacious grip') is an adjective and 'register' is not the right form of verb required in the sentence.

'Cadging' means to try to persuade someone to give or lend you something. It is an inappropriate word here. The statement mentions foul odour and taste in water and resulting illnesses. Families would be negative towards these and will try to do something against them. 'Complaining' and 'reporting' seem to be the correct words for the first blank. One would complain or report these problems. So, **eliminate option a).**

'Dragging' means to pull something along forcefully. So, the context cannot be matched with the sentence. So, **eliminate option d)** as well. 'Ranging' means to include a variety of things in addition to those mentioned. It fits right in the second blank.

Hence, option b) is correct.

91. **Answer: (A)**

The second blank will take a noun as suggested by the use of the preposition 'on' as a preposition connects two nouns. 'Dependent', 'important' and 'interdependent' are adjectives, and hence, we can **eliminate options b), c) and e).**

Also, an adjective shall modify the noun 'role' in the sentence. 'Predominance' (the state or condition of being greater in number or amount) is a noun itself, and hence, is not a fit word for the first blank. **Eliminate option d).**

'Reliance' means to depend on something. From the statement, we can say that the agricultural output depends on chemical fertilisers. That means there is reliance on chemical fertilisers. Hence, 'reliance' is the correct word for the second blank.

Hence, option a) is correct.

92. **Answer: (C)**

'Decreases in population growth' is used as the **noun phrase** in the sentence. So, an adjective shall modify

it. **Eliminate options d) and e)** as 'swiftly' and 'rapidly' are adverbs.

'Kinaesthetic' relates to a person's awareness of the position and movement of the parts of the body by means of sensory organs (proprioceptors) in the muscles and joints. It has no context with the population growth. Hence, **eliminate option a).** (Assured means confident or protected against discontinuance or change)

For the first blank, we shall follow the rule of parallelism. So, the first blank shall be filled with the past participle as 'instituted' and 'increased' are used before and after the conjunction 'and', respectively.. So, **eliminate option b).** (Abhorrent means morally very bad)

'Regenerated' is a past participle. It fits in the first blank contextually as well. 'Rapid' means happening very quickly. That fits the second blank correctly. The sentence means that having taken all the mentioned steps, it should be possible to see rapid decreases in population growth.

Hence, option c) is correct.

93. **Answer: (D)**

As given at the beginning of the first paragraph, "The definition of biodiversity loss is described as the loss of life on Earth at various levels", biodiversity loss is the loss of life on Earth at various levels.

Hence, option (d) is correct.

94. **Answer: (B)**

It is mentioned in the last paragraph of the passage "Decades of persistent land clearing means that we have lost significant amounts of natural habitats." Therefore, we have lost significant amounts of natural habitats due to continuous land clearing.

Hence, option (b) is correct.

95. **Answer: (B)**

As given at the beginning of the fourth paragraph "The single biggest contributor of global biodiversity loss is undoubtedly land and forest clearing to make way for urban and agricultural development", the biggest reason for biodiversity loss is the destruction of land and forest.

Hence, option (b) is correct.

96. **Answer: (C)**

The word 'rampant' is mentioned in the third paragraph of the passage "the current rapid rate of loss is a direct result of rampant human activity since the Industrial Revolution." Here, 'rampant' means flourishing or spreading unchecked.

Hence, option (c) is correct.

97. **Answer: (A)**

It is mentioned in the second paragraph of the passage that "The rate of loss has rapidly increased in recent years, to the point where many scientists believe that the world is currently experiencing a sixth mass extinction." The loss referred to in the above case is biodiversity loss which has increased in recent years.

Hence, option (a) is correct.

98. **Answer: (E)**

The word 'extinction' means the fact or process of a species, family, or other groups of animals or plants becoming extinct. The word 'extant' means still in existence or surviving. Option C is correct as 'extant' is the right antonym of the word 'extinction'.

Hence, option (e) is correct.

99. **Answer: (C)**

As given in the third paragraph "Biodiversity loss not only results in species extinction, but it also affects humans by depriving humanity of accessing services that natural ecosystems provide, whether it be the wealth of oxygen that we breathe", biodiversity loss

has deprived human beings of accessing services provided by natural ecosystems.

Hence, option (c) is correct.

100. **Answer: (D)**

As given in the last paragraph the word, 'persistent' means continuing firmly or obstinately in a course of

action despite difficulty or opposition. So, the right word will be 'incessant' or 'continuous'.

Hence, option (d) is correct.

'Irresolute' – indecisive.





टेस्ट फॉर्म नंबर

अधिकतम अंक : 100
कुल प्रश्न : 100
निर्धारित समय : 60 मि.

उम्मीदवारों को निर्देश**प्रश्नों को हल करने से पहले निम्नलिखित निर्देशों को ध्यान से पढ़ें।**

- इस पुस्तिका में 100 प्रश्न हैं, जो कि कुल 3 भागों में विभाजित हैं।
भाग -(I) : Reasoning Aptitude (35 प्रश्न)
भाग -(II) : Quantitative Aptitude (35 प्रश्न)
भाग -(III) : English Language (30 प्रश्न)
- सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
- प्रश्नों को हल करना प्रारम्भ करने से पहले आपको इस पुस्तिका की जांच करनी चाहिए और यह सुनिश्चित करना चाहिए कि इसमें सभी पृष्ठ उपस्थित हैं और कोई पृष्ठ कम या बदला हुआ नहीं है। अगर आपको इस पुस्तिका में कोई दोष मिलता है, तो आपको तुरंत इसे बदलना होगा।
- प्रत्येक प्रश्न में नकारात्मक अंकन होता है क्योंकि प्रत्येक गलत उत्तर के लिए 0.25 अंक काट दिया जाएगा।
- आपको निरीक्षक द्वारा उत्तर पुस्तिका अलग से दी जाएगी। आपको प्रश्नों को हल करना प्रारम्भ करने से पहले अपना नाम, रोल नंबर, टेस्ट नाम आईडी और/परीक्षा का नाम उत्तर-पुस्तिका पर सावधानीपूर्वक पूरा/ करना होगा। आपको उत्तरपुस्तिका में निर्धारित स्थान पर अपना - हस्ताक्षर भी करना होगा। इन निर्देशों का पूरी तरह से पालन किया जाना चाहिए, जिसको न करने पर आपकी उत्तरपुस्तिका का मूल्यांकन - नहीं किया जाएगा और आपको शून्य अंक दिया जाएगा।
- उत्तर केवल पेंसिल या ब्लैकब्लू बॉल पेन/ द्वारा उत्तरपुस्तिका प्रासंगिक प्रश्न संख्या के सम्बंधित गोले को पूरी तरह से ब्लैक करके - दिखाया जाना चाहिए।
- OMR उत्तर पुस्तिका को एक मशीन द्वारा जांचा जायेगा। यदि किसी स्थिति में उपलब्ध जानकारी, आवेदन पत्र में दी गयी जानकारी से अलग पायी गयी, तो आवेदक का आवेदन निरस्त कर दिया जायेगा।
- निरीक्षक की अनुमति मिलने के बाद ही कोई परीक्षा कक्ष छोड़ सकता है।
- उपरोक्त में से किसी भी निर्देश का अनुपालन करने में विफल उम्मीदवार को उपयुक्त कार्यवाही/जुर्माना के लिए उत्तरदायी समझा जा सकता है।
- जितनी जल्दी हो सके उतनी जल्दी और सावधानी से प्रश्नों का उत्तर दें। कुछ सवाल कठिन हो सकते हैं और दूसरे आसान हो सकते हैं। किसी भी प्रश्न पर ज्यादा समय नहीं बिताएं।
- मोबाइल फोन और वायरलेस संचार उपकरण, परीक्षा कक्ष कमरे में पूरी तरह से प्रतिबंधित/हैं। कोई भी आवेदक अपने मोबाइल का या किसी वायरलेस संचार उपकरण को बंद करके भी अपने पास नहीं रख सकता। नियम का उल्लंघन करने पर आवेदक के विरुद्ध उचित कार्यवाही की जायेगी और उसका आवेदन भी निरस्त किया जा सकता है।
- उत्तर-पत्र पर कोई रफ काम नहीं किया जाना चाहिए।
- कोई भी उम्मीदवार परीक्षा पूरा होने से पहले परीक्षा कक्ष नहीं छोड़ सकता है।

परीक्षार्थी का नाम:.....

दिनांक:..... परीक्षा कोड

अनुक्रमांक:.....

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें।

Reasoning Aptitude

निर्देश [01 – 02]: एक निश्चित संख्या में व्यक्ति एक रैखिक पंक्ति में बैठे हैं। सभी व्यक्ति उत्तर दिशा की ओर मुखरित हैं। M, H के दाईं ओर से चौथे स्थान पर और R के निकटस्थ बाईं ओर बैठा है। D और H के बीच में छह व्यक्ति बैठे हैं। V पंक्ति के किसी एक छोर से चौथे स्थान पर बैठा है। D और F के बीच में पाँच व्यक्ति बैठे हैं और F, V के बाईं ओर से दूसरे स्थान पर बैठा है। R पंक्ति के किसी एक छोर से दूसरे स्थान पर बैठा है।

1. पंक्ति में कितने व्यक्ति बैठे हैं?
(A) 15 (B) 20
(C) 19 (D) 21
(E) 23
2. D के सन्दर्भ में V का स्थान कौन – सा है?
(A) बाईं ओर से चौथा (B) निकटस्थ दाईं ओर
(C) बाईं ओर से पाँचवाँ (D) दाईं ओर से दूसरा
(E) बाईं ओर से तीसरा

निर्देश [03 – 07] : सात व्यक्ति किसी कंपनी में विभिन्न पदों पर नियुक्त हैं, जो सोमवार से रविवार तक क्रमागत सात दिनों में निवेशकों के साथ बैठक करते हैं। अवरोही क्रम में इन व्यक्तियों के पद अध्यक्ष > सीईओ > एमडी > एचआर > संचालक > प्रबन्धक > सहायक के रूप में हैं। एक दिन में, कंपनी का केवल एक व्यक्ति निवेशकों के साथ बैठक करता है।

M बुधवार को गया। एचआर, संचालक के क्रमागत एक दिन में जाता है। संचालक जाने वाला दूसरा अंतिम व्यक्ति था। R, O के ठीक बाद गया, जो एमडी है। सहायक P के ठीक बाद गया। N और एचआर के मध्य में दो व्यक्ति गए। R और जो व्यक्ति सीईओ है, के मध्य में तीन व्यक्ति गए। S, Q से पहले गया। Q, M से वरिष्ठ है, जो N से वरिष्ठ है।

3. निम्नलिखित में से कौन बृहस्पतिवार को गया?
(A) O (B) N
(C) R (D) S
(E) इनमें से कोई नहीं
4. S का पद कौन – सा है?
(A) संचालक (B) अध्यक्ष
(C) एचआर (D) सहायक
(E) सीईओ
5. कितने व्यक्ति प्रबंधक के बाद गए?
(A) 2 (B) 4
(C) 3 (D) 5
(E) इनमें से कोई नहीं
6. निम्नलिखित में से कौन – सा कथन सत्य है?
(A) P सोमवार को गया
(B) Q जाने वाला अंतिम व्यक्ति था
(C) N और R के मध्य में दो व्यक्ति गए
(D) R, HR है
(E) सभी सत्य हैं

7. N किस दिन बैठक के लिए गया?
(A) मंगलवार (B) सोमवार
(C) शुक्रवार (D) बृहस्पतिवार
(E) इनमें से कोई नहीं

8. नीचे दिए गए प्रश्न में तीन कथनों का अनुसरण करते हुए दो निष्कर्ष दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत हों। निष्कर्षों को पढ़िए और निर्धारित कीजिए कि दिए गए निष्कर्षों में से कौन – सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की अवहेलना करते हुए दिए गए कथनों का तार्किक रूप से अनुसरण करता है।

कथन: केवल कुछ बीट, रूट हैं।

कुछ रेडिश, रूट हैं।

सभी पोटेटो, रूट हैं।

निष्कर्ष: I. कुछ पोटेटो, रेडिश नहीं हैं।

II. सभी पोटेटो, रेडिश हैं।

(A) या तो I या II अनुसरण करता है

(B) I और II दोनों अनुसरण करते हैं

(C) केवल I अनुसरण करता है

(D) केवल II अनुसरण करता है

(E) न तो I और न ही II अनुसरण करता है

9. नीचे दिए गए प्रश्न में, तीन कथन और उसके बाद दो निष्कर्ष दिए गए हैं, आपको दिए गए कथनों को सत्य मानना है, भले ही वे सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होते हों। निष्कर्षों को पढ़िये और निर्धारित कीजिये कि दिए गए निष्कर्षों में से कौन – सा निष्कर्ष सामान्यतः ज्ञात तथ्यों की अवहेलना करते हुए तर्कसंगत रूप से दिए गए कथनों का अनुसरण करता है।

कथन: केवल कुछ आमला, आयरन हैं।

केवल कुछ आयरन, हीमोग्लोबिन है।

कोई हीमोग्लोबिन, वाइट नहीं है।

निष्कर्ष: I. सभी आयरन कभी भी वाइट नहीं हो सकते।

II. कोई हीमोग्लोबिन, आमला नहीं है।

(A) केवल II अनुसरण करता है

(B) या तो I या II अनुसरण करता है

(C) दोनों अनुसरण करते हैं

(D) केवल I अनुसरण करता है

(E) न तो I और न ही II अनुसरण करता है

10. तीन कथनों के बाद निष्कर्ष I और II दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत होते हों। निष्कर्षों को ध्यान से पढ़ें और निर्धारित करें कि दिए गए निष्कर्षों में से कौन – सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की अवहेलना करते हुए दिए गए कथनों का तार्किक रूप से अनुसरण करता है।

कथन : केवल कुछ 12's, 11's हैं।

कुछ 14's, 13's हैं।

कोई 14's, 11's नहीं है।

निष्कर्ष: I. सभी 13's, 11's होने की संभावना है।

II. कुछ 12's, 11's नहीं हैं।

(A) केवल I अनुसरण करता है

(B) केवल II अनुसरण करता है

(C) या तो I या II अनुसरण करता है

(D) I और II दोनों अनुसरण करते हैं

(E) न तो । और न ही ॥ अनुसरण करता है

11. नीचे दिए गए प्रश्न में इसके नीचे दो कथन क्रमांकित । और ॥ दिए गए हैं। आपको यह निर्धारित करना है कि कथनों में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त है या नहीं।
बिंदु F, बिंदु A की किस दिशा में है?
कथन I: बिंदु B, बिंदु A के 5 मी पूर्व में है। बिंदु C, बिंदु B के 12 मी उत्तर में है।
कथन II: बिंदु E, बिंदु C के 4 मी पश्चिम में है। बिंदु F, बिंदु E के 8 मी उत्तर में है।
(A) यदि अकेले कथन I में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त है, जबकि अकेले कथन II में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है।
(B) यदि अकेले कथन II में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त है, जबकि अकेले कथन I में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है।
(C) यदि या तो अकेले कथन I या अकेले कथन II में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त है।
(D) यदि एक साथ कथन I और II दोनों में दी गई सूचना प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है।
(E) यदि एक साथ कथन I और II दोनों में दी गई सूचना प्रश्न का उत्तर देने के लिए आवश्यक है।

निर्देश [12 – 13]: निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और उसके नीचे दिए गए प्रश्नों के उत्तर दीजिए :

राजू, महात्मा गांधी के परिवार के विषय में पढ़ रहा था। उनके परिवार में कई सदस्य थे। यह ज्ञात है कि पुतलीबाई, लक्ष्मीदास की माता थीं तथा लक्ष्मीदास एक पुरुष हैं। कस्तूरबा, करमचंद की बहू थीं। मणिलाल, मोहनदास के पुत्र थे। करसनदास, करमचंद के अविवाहित पुत्र थे। हीरालाल, कस्तूरबा के पुत्र और मणिलाल के सहोदर थे। करमचंद का विवाह पुतलीबाई से हुआ था।

12. हीरालाल, करसनदास से किस प्रकार संबंधित हैं?
(A) भाई (B) कजन
(C) पुत्र (D) भतीजा/भांजा
(E) अंकल
13. कस्तूरबा, लक्ष्मीदास से किस प्रकार से संबंधित हैं?
(A) माता (B) सास
(C) सिस्टर – इन – ला (D) बहन
(E) आंटी

निर्देश [14 – 16]: आठ मित्र, A, B, C, D, E, F, G, और H, अलग – अलग आकार की शर्ट पहनते हैं। प्रत्येक शर्ट का आकार एक सम संख्या है। E, H से बड़ी शर्ट पहनता है और केवल दो मित्र B से छोटी शर्ट पहनते हैं। A, G से ठीक बड़ी शर्ट पहनता है और G एक पूर्ण वर्ग वाली संख्या के एक आकार का शर्ट पहनता है। दूसरी सबसे बड़ी शर्ट का आकार 44 है, जिसे H नहीं पहनता है। D, F से ठीक छोटी शर्ट पहनता है। C से छोटी शर्ट पहनने वाले मित्रों की संख्या, H से बड़ी शर्ट पहनने वाले मित्रों की संख्या से तीन गुना है। F, A से छोटी शर्ट पहनता है

और F तीन और पाँच दोनों से विभाज्य वाली संख्या के एक आकार का शर्ट पहनता है।

14. कितने मित्र A से बड़ी शर्ट पहनते हैं?
(A) 3 (B) 2
(C) 4 से अधिक (D) 2 से कम
(E) निर्धारित नहीं किया जा सकता है
15. यदि A और G द्वारा पहनी गई शर्ट के आकार का योग 74 है, तो H की शर्ट का संभावित आकार क्या है?
(A) 40 (B) 38
(C) या तो A या E (D) या तो B या A
(E) 42
16. B की शर्ट का संभावित आकार क्या हो सकता है?
(A) 38 (B) 36
(C) 28 (D) 26
(E) 34
17. नीचे दिए गए प्रश्न में, एक कथन के बाद कथन के आधार पर दो निष्कर्ष दिए गए हैं। कथन का अध्ययन कीजिए और निर्धारित कीजिए कि कौन – सा/से निष्कर्ष निश्चित रूप से सत्य है/हैं?
कथन: $R > A > Z = E \leq D$; $N < C \leq Q < R$
निष्कर्ष: I. $Q \leq D$ II. $E < N$
(A) केवल I अनुसरण करता है
(B) केवल II अनुसरण करता है
(C) I और II दोनों अनुसरण करते हैं
(D) न तो I और न ही II अनुसरण करता है
(E) या तो I या II अनुसरण करता है
18. नीचे दिए गए प्रश्न में एक कथन के बाद कथन पर आधारित निष्कर्ष विकल्पों में दिए गए हैं। निष्कर्षों का अध्ययन कीजिए और उत्तर के रूप में सही विकल्प का चयन कीजिए।
कथन: $H \geq T \leq U = P$; $T \geq X < C > K$
(A) $U > C$ (B) $K < H$
(C) या तो (A) या (D) और (E) अनुसरण करते हैं
(D) $U \leq C$ (E) $P \geq X$

निर्देश [19 – 21]: एक जन्मदिन की पार्टी में अलग – अलग चॉकलेट अर्थात्, मेलोडी, पल्स, कॉफी, जेम्स, मंच और पर्क के छह बॉक्स एक के ऊपर एक स्टैक किए गए हैं लेकिन यह आवश्यक नहीं कि यह क्रम समान हो। सबसे नीचे वाले स्टैक को 1 के रूप में संख्यांकित किया गया और सबसे ऊपर वाले स्टैक को 6 के रूप में संख्यांकित किया गया है। प्रत्येक बॉक्स में चॉकलेट की संख्या अलग – अलग अर्थात् 2, 4, 8, 9, 11 और 17 है। मंच वाला बॉक्स, पर्क वाले बॉक्स के ठीक नीचे रखा गया है और पर्क वाले बॉक्स में चॉकलेटों की संख्या एक घन संख्या है। कॉफी वाले बॉक्स में चॉकलेटों की संख्या, मंच वाले बॉक्स में चॉकलेटों की संख्या से अधिक है। अभाज्य संख्या में चॉकलेट वाले बॉक्स और जेम्स वाले बॉक्स के बीच में दो बॉक्स रखे गए हैं और जेम्स वाला बॉक्स, पल्स वाले बॉक्स के ठीक नीचे रखा गया है। कॉफी चॉकलेट वाले बॉक्स को स्टैक 5 के नीचे एक सम संख्यांकित स्टैक पर रखा गया है। जेम्स वाले बॉक्स में चॉकलेटों की

संख्या, मेलोडी वाले बॉक्स में चॉकलेटों की संख्या से पाँच अधिक है। कॉफी वाले बॉक्स और पल्स वाले बॉक्स के बीच में केवल एक बॉक्स रखा गया है और पल्स वाले बॉक्स में चॉकलेटों की संख्या सबसे अधिक है। जेम्स वाला बॉक्स, मेलोडी वाले बॉक्स के ऊपर रखा गया है।

19. मेलोडी चॉकलेट वाले बॉक्स के नीचे कितने चॉकलेट के बॉक्स हैं?
 (A) 1 (B) 2
 (C) 3 (D) 4
 (E) कोई नहीं
20. जेम्स वाले बॉक्स और कॉफी वाले बॉक्स में रखी गई चॉकलेटों की संख्या का औसत कितना है?
 (A) 4 (B) 6
 (C) 10 (D) 12
 (E) 8
21. निम्नलिखित में से कौन – सा चॉकलेट बॉक्स, कॉफी चॉकलेट वाले बॉक्स के ठीक नीचे रखा गया है?
 (A) पर्क
 (B) वह बॉक्स जिसमें चॉकलेटों की संख्या एक घन संख्या है
 (C) मेलोडी चॉकलेट
 (D) वह बॉक्स जिसमें चॉकलेटों की संख्या सबसे कम है
 (E) या तो A या B

निर्देश [22 – 26]: सात विद्यार्थी M, N, P, S, T, W और Z एक रेखिक पंक्ति में उत्तर दिशा की ओर मुखरित होकर बैठे हैं। इनमें से प्रत्येक विद्यार्थी की आयु अलग-अलग तथा 21 से 27 वर्ष के बीच है लेकिन आवश्यक नहीं कि यह समान क्रम में हो। एक पूर्ण वर्ग आयु वाला विद्यार्थी M के दाईं ओर से चौथे स्थान पर बैठा है। न तो S की आयु और न ही M की आयु एक अभाज्य संख्या है। P की आयु न तो 21 वर्ष और न ही 24 वर्ष है। M न तो पंक्ति के छोर पर बैठा है और न ही P के आसन्न बैठा है। T, सबसे कम आयु वाले विद्यार्थी के निकटस्थ दाईं ओर बैठा है। एक अभाज्य संख्या की आयु वाला विद्यार्थी, P के बाईं ओर से दूसरे स्थान पर बैठा है तथा P, N के आसन्न बैठा है। S और N के बीच में दो विद्यार्थी बैठे हैं तथा N पंक्ति के ठीक बीच में बैठा है। एक पूर्ण घन आयु वाला विद्यार्थी Z के बाईं ओर से तीसरे स्थान पर बैठा है तथा Z की आयु 26 वर्ष है।

22. निम्नलिखित में से किस विद्यार्थी की आयु 24 वर्ष है?
 (A) M (B) S
 (C) W (D) Z
 (E) P
23. W और 21 वर्ष की आयु वाले विद्यार्थी के बीच में कितने विद्यार्थी बैठे हैं?
 (A) 1 (B) 2
 (C) 3 (D) 3 से अधिक
 (E) कोई नहीं
24. निम्नलिखित विकल्पों में से चार एक – दूसरे से किसी न किसी रूप में संबंधित हैं और इस प्रकार एक समूह

बनाते हैं, निम्नलिखित में से कौन – सा विकल्प उस समूह से संबंधित नहीं है?

- (A) P (B) M
 (C) T (D) N
 (E) W

25. यदि S, 21 से संबंधित है, तो उसी प्रकार Z किससे संबंधित है?
 (A) 23 (B) 27
 (C) 22 (D) 25
 (E) 24
26. T, ____ के निकटस्थ बाईं ओर बैठा है तथा जिसकी आयु ____ वर्ष है।
 (A) P, 25 (B) S, 26
 (C) M, 21 (D) P, 23
 (E) N, 27

निर्देश [27 – 29]: एक निश्चित संख्या में व्यक्ति एक वृत्ताकार मेज के इर्द – गिर्द अंदर की ओर मुख करके बैठे हैं और उनमें से कुछ के नाम ज्ञात हैं। B और A के बीच आठ से कम लोग बैठे हैं, जब A से शुरू करके दक्षिणावृत्त (घड़ी की दिशा) में गिना जाता है। G और C के बीच चार लोग बैठे हैं और C, D के आसन्न बैठा है। E, F के बाएं से पांचवें स्थान पर बैठा है और F, D के निकटस्थ बाईं ओर बैठा है। A, H के दायें से छठे स्थान पर बैठा है और H, G के निकटस्थ दायें बैठा है। जब C से शुरू करके दक्षिणावृत्त दिशा में गिना जाता है, तो B और C के बीच बैठे व्यक्तियों की संख्या आठ है। केवल A और D के बीच दो व्यक्ति बैठे हैं। B और A एक – दूसरे के आसन्न नहीं बैठे हैं।

27. निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?
 I. A, G के बायें से नौवें स्थान पर बैठा है।
 II. B और G एक – दूसरे के आसन्न बैठे हैं।
 III. A, C के दायें से बारहवें स्थान पर बैठा है।
 (A) केवल I और II (B) केवल III और II
 (C) केवल I और III (D) केवल I
 (E) केवल III
28. वृत्ताकार मेज के इर्द – गिर्द कितने व्यक्ति बैठे हैं?
 (A) 18 (B) 19
 (C) 16 (D) 14
 (E) 15
29. H से शुरू करके दक्षिणावर्त दिशा में गिनने पर H और ____ के बीच बैठे व्यक्तियों की संख्या ____ होती है।
 (A) D, छह (B) A, आठ
 (C) E, दो (D) C, ग्यारह
 (E) B, नौ
30. यदि शब्द "WORRIEDLY" के बाएं छोर से दूसरे, चौथे, सातवें और आठवें अक्षरों का केवल एक बार प्रयोग करके एक अर्थपूर्ण शब्द बनाया जा सकता है, तो इस प्रकार से निर्मित शब्द के दायें छोर से पहला अक्षर क्या है? यदि ऐसा कोई शब्द नहीं बनाया जा सकता है, तो अपने उत्तर के रूप में X को चिह्नित करें, जबकि यदि

एक से अधिक शब्द बन सकते हैं, तो अपने उत्तर के रूप में Z को चिह्नित करें।

- (A) Z (B) D
(C) L (D) X
(E) O

31. संख्या '96358741' में आगे और पीछे दोनों दिशाओं से गणना करने पर अंकों के ऐसे कितने युग्म हैं जिनके बीच उतनी ही संख्याएँ हैं जितनी कि प्राकृत संख्या श्रृंखला में होती हैं?

- (A) एक (B) दो
(C) कोई नहीं (D) तीन
(E) चार

32. यदि शब्द 'CRYSTAL' के सभी व्यंजनों से अंग्रेजी का एक 3 - अक्षर का अर्थपूर्ण शब्द बनाया जा सकता है, तो इस प्रकार निर्मित शब्द के बायें अंत से तीसरा अक्षर निम्नलिखित में से कौन - सा होगा? यदि ऐसे एक से अधिक अर्थपूर्ण शब्द बन सकते हैं तो अपने उत्तर के रूप में 'A' चुनें। यदि कोई अर्थपूर्ण शब्द नहीं बनता है, तो अपने उत्तर के रूप में 'B' चुनें।

- (A) R (B) Y
(C) T (D) B
(E) A

33. शब्द "CONCEPT" में दोनों ओर से गिनने पर अक्षरों के ऐसे कितने युग्म हैं जिनके बीच उतने ही अक्षर हैं जितने कि अंग्रेजी वर्णमाला श्रृंखला में उनके बीच होते हैं?

- (A) कोई नहीं (B) एक
(C) तीन (D) दो
(E) तीन से अधिक

34. रोज केंद्रीय पार्क से आरम्भ करके पूर्व की ओर 5 किमी. चलता है, तथा इसके बाद बायीं ओर मुड़कर 15 किमी. चलता है। इसके बाद वह दायीं ओर मुड़कर 20 किमी. चलता है। अंततः वह दायीं ओर मुड़ता है और 30 किमी. और चलता है जहाँ उसे उसका मित्र राचेल मिलता है। आरम्भिक बिंदु से किस दिशा में राचेल मौजूद है।

- (A) पूर्व (B) दक्षिण - पूर्व
(C) दक्षिण (D) उत्तर
(E) दक्षिण-पश्चिम

35. दिए गए प्रश्न में चार अक्षर समूह किसी प्रकार से एक समान हैं। असंगत अक्षर समूह की पहचान कीजिए।

- (A) BRFV (B) PWTZ
(C) LTPX (D) MLQP
(E) ESIW

Quantitative Aptitude

निर्देश [36-41]: आँकड़ों को ध्यानपूर्वक पढ़िए और निम्नलिखित प्रश्नों के उत्तर दीजिए।

ट्रेन संख्या 22460 बाबा धाम एक्सप्रेस आनंद विहार से मधुपुर के बीच चलती है। नीचे दी गई तालिका सामान्य कोटा में खाली सीटों की संख्या और ट्रेन में यात्रा के विभिन्न श्रेणियों अर्थात् द्वितीय श्रेणी (2S), शयनयान (SL),

AC 3 - श्रेणी (3A), AC 2 - श्रेणी (2A) और AC 1 - श्रेणी (1A) के लिए बुक की गई सीटों का प्रतिशत दर्शाती है।

नोट: किसी विशेष श्रेणी के लिए कुल सीटों की संख्या = बुक की गई सीटों की संख्या + उस श्रेणी में खाली सीटों की संख्या।

नोट: घटते क्रम में श्रेणियों का क्रम 1A > 2A > 3A > SL > 2S है।

श्रेणी	खाली सीटों की संख्या	बुक की गई सीटों का प्रतिशत
2S	12	98
SL	56	92
3A	42	86
2A	44	78
1A	9	94

36. बाबा धाम एक्सप्रेस की सभी श्रेणियों में बुक की गई कुल सीटों का योगफल ज्ञात कीजिए।

- (A) 1877 (B) 1787
(C) 1887 (D) 1687
(E) इनमें से कोई नहीं

37. एक साथ 2S और 2A श्रेणियों में कुल सीटों की संख्या, एक साथ SL और 3A श्रेणियों में सीटों की कुल संख्या से कितने प्रतिशत अधिक/कम है?

- (A) 12.5 (B) 50
(C) 25 (D) 20
(E) 18.75

38. खाली सीटों की कुल संख्या, ट्रेन में कुल सीटों की संख्या का अनुमानित कितना प्रतिशत है?

- (A) 8.12 (B) 8.36
(C) 9.28 (D) 9.45
(E) 20

39. यदि श्रेणी 3A में सीट बुक करने वाले पुरुषों और महिलाओं का अनुपात 25:18 है तथा श्रेणी 2A में सीट बुक करने वाली महिलाओं और पुरुषों का अनुपात 6:7 है, तो एक साथ श्रेणी 3A और श्रेणी 2A में सीट बुक करने वाले पुरुषों की कुल संख्या तथा श्रेणी 1A में बुक की गई सीटों की कुल संख्या के बीच का अंतर ज्ञात कीजिए।

- (A) 83 (B) 39
(C) 84 (D) 81
(E) इनमें से कोई नहीं

40. यदि किसी विशेष श्रेणी में सीट खाली हैं, तो उस श्रेणी में खाली सीटों को भरने के लिए ठीक नीचे वाली श्रेणी की सीटें स्वचालित रूप से उस विशेष श्रेणी में अपग्रेड हो जाती हैं, अपग्रेड करने की प्रक्रिया पूरी होने के बाद श्रेणी SL में खाली सीटों की कुल संख्या ज्ञात कीजिए। निम्न श्रेणी से अगली उच्च श्रेणी में अपग्रेड होने से निम्न श्रेणी में सीटें खाली हो जाती हैं।

- (A) 163 (B) 0
(C) 14 (D) 13
(E) इनमें से कोई नहीं

41. श्रेणी 2A में बुक की गई कुल सीटें और श्रेणी 3A में कुल सीटों की संख्या का अनुपात ज्ञात कीजिए।

- (A) 26:43 (B) 2:3
(C) 13:25 (D) 11:75
(E) 22:129

42. P - मार्ट के एक कर्मचारी ने 7 बोरी चावल को एक पंक्ति में रखा। सभी बोरियों का भार अलग - अलग है। सभी 7 बोरियों का औसत भार 29 किग्रा है। पहली तीन बोरियों का औसत भार 31 किग्रा है। चौथी बोरी का भार, पाँचवीं बोरी के भार से 10 किग्रा अधिक है, जबकि छठी और सातवीं बोरी का औसत भार, पहली तीन बोरियों के औसत भार से 3 किग्रा कम है, तो चौथी बोरी का भार ज्ञात कीजिए।

- (A) 34 किग्रा (B) 32 किग्रा
(C) 31 किग्रा (D) 30 किग्रा
(E) इनमें से कोई नहीं

43. निम्नलिखित प्रश्न में दो समीकरण संख्यांकित I और II दिए गए हैं। आपको दोनों समीकरणों को हल करना है और सही विकल्प का चयन करना है।

I. $x^2 + 11x - 12 = 0$ II. $y^2 + 27y - 152 = 0$

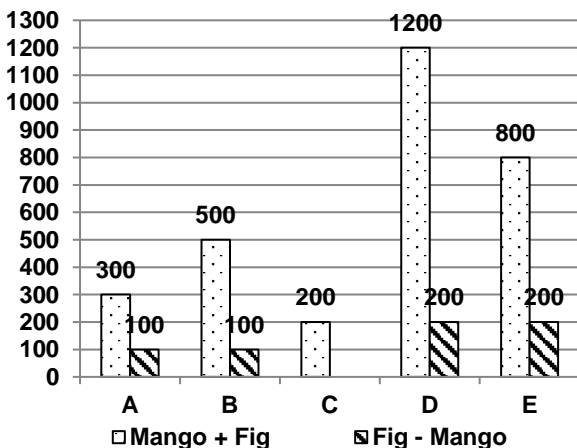
- (A) $x < y$ (B) $x > y$
(C) $x \leq y$ (D) $x \geq y$
(E) $x = y$ या संबंध स्थापित नहीं किया जा सकता

44. निम्नलिखित प्रश्न में दो समीकरण I और II दिए गए हैं। दोनों समीकरणों को ध्यानपूर्वक हल कीजिए और सही विकल्प का चयन कीजिए।

I. $x^2 + 4x - 45 = 0$ II. $y^2 + 12y - 45 = 0$

- (A) $x > y$ (B) $x < y$
(C) $x = y$ या x और y के बीच कोई संबंध स्थापित नहीं किया जा सकता
(D) $x \geq y$ (E) $x \leq y$

निर्देश [45 - 48]: नीचे दिया गया दंड आरेख 5 अलग - अलग व्यक्तियों के पास आम और अंजीर की आइसक्रीम की संख्या के योग और अंतर को दर्शाता है।



45. यदि एक आम और अंजीर की आइसक्रीम की कीमत क्रमशः 10 रुपये, 20 रुपये है। यदि A अपनी सभी आइसक्रीम बेच देता है, तो उसके द्वारा अर्जित धनराशि ज्ञात कीजिये?

- (A) रु. 5000 (B) रु. 6000
(C) रु. 7000 (D) रु. 8000
(E) रु. 1000

46. यदि B स्वयं 20% आम की आइसक्रीम और 30% अंजीर की आइसक्रीम खाता है। तो ज्ञात कीजिए कि उसके पास कितनी आइसक्रीम बची है?

- (A) 370 (B) 470
(C) 570 (D) 670
(E) 870

47. यदि एक अन्य व्यक्ति F के पास E की तुलना में 100 अधिक आम की आइसक्रीम और C के पास उपलब्ध अंजीर की आइसक्रीम की दोगुना अंजीर की आइसक्रीम हैं, तो ज्ञात कीजिए कि F के पास कुल कितनी आइसक्रीम हैं?

- (A) 600 (B) 300
(C) 400 (D) 500
(E) 200

48. यदि G के पास उपलब्ध अंजीर की आइसक्रीम और A के पास उपलब्ध अंजीर की आइसक्रीम का अनुपात 2:1 है, तो B, C और E के पास उपलब्ध आम की आइसक्रीम का औसत, एक अन्य व्यक्ति G के पास उपलब्ध अंजीर की आइसक्रीम की संख्या का कितना प्रतिशत है?

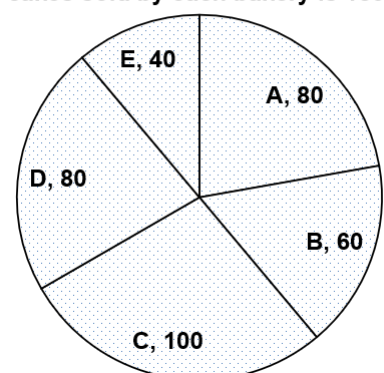
- (A) 90% (B) 80%
(C) 70% (D) 50%
(E) 60%

निर्देश [49 - 53]: आंकड़ों को ध्यान से पढ़ें और निम्नलिखित प्रश्नों के उत्तर दें।

5 बेकरी A, B, C, D और E हैं तथा उनमें से प्रत्येक ने एक विशेष दिन में तीन अलग - अलग फ्लेवर (स्वाद) के केक बेचे हैं। तीन फ्लेवर चॉकलेट, वेनिला और स्ट्रॉबेरी हैं।

नीचे दिया गया वृतीय आरेख प्रत्येक बेकरी द्वारा बेचे जाने वाले चॉकलेट केक की संख्या का प्रतिशत - वार वितरण दर्शाता है।

Sum of number of chocolate cakes sold by each bakery is 180.



नीचे दी गई तालिका प्रत्येक बेकरी द्वारा बेचे जाने वाले चॉकलेट केक के प्रतिशत के रूप में बेचे जाने वाले वेनिला केक की संख्या को दर्शाती है तथा प्रत्येक बेकरी द्वारा बेचे गए वेनिला केक और बेचे गए स्ट्रॉबेरी केक की संख्या के अनुपात को भी दर्शाता है।

बेकरी	बेचे गए चॉकलेट केक के प्रतिशत के रूप में बेचे गए वेनिला केक की संख्या	संख्या का अनुपात बेचे गए वेनिला केक की तुलना में बेचे गए स्ट्रॉबेरी केक की तुलना में
A	80%	2: 3
B	120%	4: 5
C	80%	5: 3
D	75%	5: 7
E	140%	4: 5

49. एक साथ बेकरी D और E द्वारा बेचे गए वेनिला केक की संख्या, बेकरी C द्वारा बेचे गए केक का कितना प्रतिशत है?

(A) 145% (B) 130%
(C) 150% (D) 135%
(E) 140%

50. यदि बेकरी A अपने चॉकलेट केक को 450 रुपये प्रति पीस पर, वेनिला केक को 400 रुपये प्रति पीस और स्ट्रॉबेरी केक को 300 रुपये प्रति पीस पर बेचता है, तो बेकरी A को प्राप्त कुल धनराशि ज्ञात कीजिये?

(A) 42500 रुपये (B) 45200 रुपये
(C) 43400 रुपये (D) 44300 रुपये
(E) 42400 रुपये

51. बेकरी B द्वारा बेचे गए केक और बेकरी C द्वारा बेचे गए केक की कुल संख्या के बीच का अंतर ज्ञात कीजिए?

(A) 4 (B) 8
(C) 3 (D) 7
(E) 5

52. बेकरी C द्वारा एक साथ बेचे गए वेनिला केक और स्ट्रॉबेरी केक की कुल संख्या, बेकरी C द्वारा बेचे गए चॉकलेट केक की संख्या से कितने प्रतिशत अधिक है?

(A) 32% (B) 24%
(C) 35% (D) 28%
(E) 30%

53. बेकरी B द्वारा बेचे गए और बेकरी E द्वारा बेचे गए केक की कुल संख्या का औसत ज्ञात कीजिए?

(A) 95 (B) 97
(C) 92 (D) 99
(E) 96

54. नीचे दी गई श्रृंखला में गलत पद ज्ञात कीजिए।

25, 52, 89, 130, 193, 260

(A) 52 (B) 260
(C) 193 (D) 89
(E) 130

55. निम्नलिखित प्रश्न में एक संख्या श्रृंखला दी गई है जिसमें एक पद गलत है। गलत पद ज्ञात कीजिए।

6615, 1470, 735, 105, 35, 14, 7

(A) 35 (B) 735
(C) 7 (D) 105
(E) 14

56. निम्नलिखित प्रत्येक प्रश्न में एक संख्या श्रृंखला दी गई है जिसमें एक पद गलत है। गलत पद ज्ञात कीजिए।

31, 32, 28, 37, 21, 42

(A) 32 (B) 37
(C) 42 (D) 21
(E) 28

57. श्रृंखला में अगला पद ज्ञात कीजिए।

6, 31, 81, 156, 256, ?

(A) 271 (B) 291
(C) 348 (D) 317
(E) 381

58. श्रृंखला में लुप्त पद ज्ञात कीजिए।

17, ?, 24, 50, 113, 237, 452

(A) 23 (B) 17
(C) 20 (D) 21
(E) 22

59. एक पुस्तकालय में गणित की पुस्तकों, हिंदी की पुस्तकों तथा अंग्रेजी की पुस्तकों की संख्या का अनुपात क्रमशः 6:5:7 है। यदि प्रत्येक विषय की 30 पुस्तकों को जोड़ा जाए, तो पुस्तकालय में संबंधित अनुपात 8:7:9 हो जाता है। तो, पुस्तकालय में पुस्तकों की संख्या में वृद्धि के बाद गणित की पुस्तकों, हिंदी की पुस्तकों और अंग्रेजी की पुस्तकों की कुल संख्या ज्ञात कीजिए?

(A) 336 (B) 480
(C) 360 (D) 384
(E) 396

60. व्यक्ति A और B शुरू में 54 किमी दूर हैं तथा वे एक साथ एक दूसरे की ओर यात्रा करना शुरू करते हैं। जब वे 48 मिनट के बाद मिलते हैं, तो यह पाया गया कि A ने B से 2 किमी अधिक यात्रा की। व्यक्ति A की चाल कितनी है?

(A) 25 किमी/घंटा (B) 30 किमी/घंटा
(C) 35 किमी/घंटा (D) 40 किमी/घंटा
(E) 45 किमी/घंटा

61. एक अर्धवृत्त के परिमाण और एक वर्ग के परिमाण का योग 324 सेमी है तथा वर्ग की भुजा और अर्धवृत्त की त्रिज्या का अनुपात 9:14 है, तो वर्ग का क्षेत्रफल ज्ञात करें?

(A) 81 सेमी² (B) 729 सेमी²
(C) 324 सेमी² (D) 1296 सेमी²
(E) 2025 सेमी²

62. M, N और O संयुक्त रूप से एक व्यवसाय इस प्रकार शुरू करते हैं कि M अपनी पूँजी रु.13000, 18 महीने

के लिए निवेश करेगा, N अपनी पूंजी रु.16800, 15 महीने के लिए निवेश करेगा और O अपनी पूंजी रु.20000, 9 महीने के लिए निवेश करेगा। यदि व्यवसाय से लाभ रु.18500 है, तो M और N के हिस्से के बीच के अंतर और N और O के हिस्से के बीच के अंतर का योगफल ज्ञात कीजिए।

- (A) रु.1500 (B) रु.2500
(C) रु.2000 (D) रु.3000
(E) इनमें से कोई नहीं

63. X, Y और Z एक निश्चित काम को क्रमशः 10, 15 और 25 दिनों में पूरा कर सकते हैं। उन्होंने एक साथ काम शुरू किया लेकिन X ने काम पूरा होने से 2 दिन पहले काम छोड़ दिया, Z ने काम पूरा होने से 1 दिन पहले काम छोड़ दिया। काम को पूरा करने में लिए गए कुल दिन ज्ञात कीजिए?

- (A) 6 दिन (B) 7 दिन
(C) 8 दिन (D) 9 दिन
(E) 10 दिन

64. नीचे दिए गए व्यंजक में (?) के स्थान पर अनुमानित मान क्या आना चाहिए?

$$25.05 \text{ का } 79.99\% - 9.9 \times 117.11 \div 9.11 = ?$$

- (A) - 80 (B) - 90
(C) 100 (D) - 110
(E) 80

65. निम्नलिखित प्रश्न में प्रश्न चिह्न (?) के स्थान पर अनुमानित मान क्या आएगा?

$$(39.99 \times 15.18) - (24.12 \times 9.99) - (0.99 \times 72.02) = ?$$

- (A) 276 (B) 322
(C) 288 (D) 250
(E) 300

66. एक बैग में 1 से 22 तक संख्यांकित कुछ गेंदें हैं। एक गेंद यादृच्छिक रूप से निकाली जाती है, तो निकाली गई गेंद पर संख्यांकित संख्या के 3 या 5 का गुणज होने की प्रायिकता कितनी है?

- (A) 5/11 (B) 6/11
(C) 7/11 (D) 8/11
(E) 9/11

67. तीन दोस्त A, B और C की वर्तमान आयु का योगफल 86 वर्ष है। चार वर्ष पहले, A और B की आयु का अनुपात क्रमशः 3: 2 था। यदि C, B से आयु में 4 वर्ष बड़ा है, तो B की वर्तमान आयु ज्ञात कीजिए।

- (A) 32 वर्ष (B) 20 वर्ष
(C) 24 वर्ष (D) 30 वर्ष
(E) 28 वर्ष

68. एक मोबाइल फोन 31160 रु में बेचकर, एक डीलर को 5% की हानि होती है। उसे 12% का लाभ प्राप्त करने के लिए उसे किस कीमत पर बेचना चाहिए?

- (A) रु. 36736 (B) रु. 32476
(C) रु. 30542 (D) रु. 38956
(E) रु. 64164

69. एक प्योरीफायर में 15 वाल्व/पाइप लगे हैं जिनमें से कुछ प्योरीफायर को भरते हैं जबकि शेष शुद्ध जल की निकासी में प्रयोग किये जाते हैं। प्योरीफायर को भरने में उपयोग किये जाने वाला प्रत्येक पाइप प्योरीफायर को 15 घंटे में भर देता है जबकि निकासी करने वाला प्रत्येक पाइप प्योरीफायर को खाली करने में 30 घंटे का समय लगाता है। यदि सभी पाइपों को एक साथ खोल दिया जाये तो प्योरीफायर को पूरा भरने में 2 घंटे का समय लगता है तो कितने प्रतिशत पाइप प्योरीफायर को खाली करने के लिए लगाए गये थे ?

- (A) 33.33% (B) 44.44%
(C) 39.39% (D) 48.50%
(E) 47.65%

70. एक ब्लूटूथ इयरफोन के अंकित मूल्य पर 25% और y% की दो क्रमागत छूट प्रदान की जाती हैं। यदि अंकित मूल्य और विक्रय मूल्य का योगफल रु. 2820 है तथा उनके बीच का अंतर रु. 1020 है, तो y का मान ज्ञात कीजिए।

- (A) 25% (B) 37.5%
(C) 31.25% (D) 20%
(E) 18.75%

English Language

71. Which of the following phrases (I), (II), and (III) given below the sentence should replace the phrase printed in bold to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct phrase(s) to be used in the sentence. If the sentence is correct as it is, mark 'No Improvement', as the answer.

Rahul **finally told to me** the problem he had been facing for a year now.

- I. Finally informed me
II. Eventually revealed to me
III. Finally explained to me
(A) Only I and II (B) All I, II, and III
(C) Only II (D) Only III
(E) No Improvement

72. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.

No sooner I had (A)/ got into my(B)/ car than a black(C)/ cat crossed my path(D)/ **followed by/ another similar cat.**

- (A) C (B) B
(C) A (D) E
(E) No error

73. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.

The boy who/ was so naughty (A) /at the function (B)/ were admired (C)/ **by everyone /who** attended the function.

- (A) D (B) A
(C) B (D) C
(E) No error

74. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.

Neither the father (A)/ nor the children (B)/ is able to withstand (C)/ the cold weather outside (D) / **as they have / no place to live.**

- (A) D (B) A
(C) B (D) No error
(E) C

75. In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error'. Note: The words in bold are grammatically and contextually correct.

This / never costs (A)/ anything to speak of (B)/ **unless** / you don't plant (C)/ more than enough (D).

- (A) D (B) A
(C) B (D) C
(E) No error

76. In the following question, a sentence is given with four words marked as (A), (B), (C), and (D). Choose the option with pair(s) of the words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required, mark 'No change required' as your answer.

Elephants can lower **than** (A) overall temperature by more **their** (B) ten degrees Celsius by **simply** (C) flapping their massive ears to **create** (D) wind.

- (A) A – B and C – D (B) A – C and B – D
(C) B – D (D) A – B
(E) No change required

77. In the following question, a sentence is given with four words marked as (A), (B), (C), and (D). Choose the option with pair(s) of the words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required, mark 'No change required' as your answer.

As the **expanded** (A) of the University of Texas, Austin has **home** (B) as a **research** (C) and development **centre** (D) for defence.

- (A) A – B and C – D (B) A – C and B – D
(C) B – D (D) A – B
(E) No change required

78. In the following question, a sentence is given with four words marked as (A), (B), (C), and (D). Choose the option with pair(s) of the words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required, mark 'No change required' as your answer.

Peasants were **society** (A) of their lowly place in **aware** (B) and became less **remaining** (C) to support the **willing** (D) elements of the feudal system.

- (A) A – B and C – D (B) A – C and B – D
(C) B – D (D) A – B
(E) No change required

79. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given

below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.

He would frequently go for a swim, then he would come and talk to us.

- (A) Often he would (B) He is frequently
(C) He would be (D) No correction required
(E) Often he would be

80. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.

I am eighteen years old **and my brother nineteen.**

- (A) and my brother is nineteen
(B) and mine brother nineteen
(C) and my brother nineteen's
(D) and mine brother's nineteen's
(E) No correction required

81. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.

Navratri **has been most popular celebrations** of the ultimate source of power that is the nine forms of Nav Durga.

- (A) should be a popular celebration
(B) is the most popular celebration
(C) can be popularly celebrated as
(D) will be popularly celebrated as
(E) No correction required

82. In the given question, three sentences are given which may or may not be correct grammatically or contextually. Mark the option as your answer, which contain(s) the sentences which is/are grammatically or contextually incorrect.

A. His absence of mind while driving nearly caused an accident.

B. Some students see it as contributing little or anything to the overall proposal task.

C. They neither pressed him on the issue nor thought less of him for showing his emotions.

- (A) Only A (B) Only B
(C) Only C (D) B and C
(E) A and B

83. In the given question, three sentences are given which may or may not be correct grammatically or contextually. Mark the option as your answer, which contain(s) the sentences which is/are grammatically or contextually incorrect.

A. The service has become heavily reliant on government support.

B. There are no mountains between the Atlantic Ocean to the St. Lawrence River.

C. The soldiers were in civilian clothes, to make their presence less obtrusive.

- (A) A and C (B) B and C
(C) Only A (D) Only B
(E) Only C

84. In the question given below, a sentence is divided into six parts, where the bold parts are

grammatically correct. Out of the other four parts, one of the parts may contain an error. Identify the part that contains the error and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error' as your answer.

Our curtains/ are delicater and (A)/ costlier than those(B)/ of Mrs Ben's, so(C)/ they need(D)/ **more handling.**

- (A) B (B) D
(C) A (D) C
(E) No error

85. In the question given below, a sentence is divided into six parts, where the bold parts are grammatically correct. Out of the other four parts, one of the parts may contain an error. Identify the part that contains the error and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark 'No error' as your answer.

Each person are(A)/ supposed to follow(B)/ **the traffic guidelines/ otherwise he/** or she would need(C)/ to pay the fine(D).

- (A) A (B) B
(C) C (D) D
(E) No error

86. In the question given below, a sentence is given with two blanks, followed by five options, each having two words that may or may not fit the blanks. Choose the one that gives the correct words that fit in the blanks.

Most of us _____ that our actions have a significant _____ on the environment.

- (A) Imagination, affect (B) Recognise, impact
(C) Explain, the relation (D) Fails, effect
(E) Affects, realise

87. In the question given below, a sentence is given with two blanks. Choose the correct combination of words that fit in the sentence.

As the pandemic has continued and workers' flexible work habits have become more _____, a full – time return to the office _____ to be a thing of the past.

- (A) Achieved, agreed (B) Restrained, appeared
(C) Constant, seemingly (D) Ingrained, appears
(E) Entrench, think

88. The following question consists of four/five sentences labelled A, B, C, D, and E which when logically arranged form a coherent paragraph. Choose the option that gives the correct order.

A. 'Sonny', as he's known, is a bit of a rogue.
B. People tend to be taken aback, but really there is no need to worry.
C. He's a warm – hearted, sensitive guy, and spellbinding in conversation.
D. In truth he's an amazingly fit and healthy 90 – year – old.

- (A) BADC (B) BCDA
(C) BDCA (D) ACDB
(E) ABDC

89. In the given question, a sentence has been broken into five parts and the parts are jumbled. Choose the option which provides the correct order to rearrange the parts to form a grammatically and contextually meaningful sentence.

A. proportion of 18 – to – 29 – year – old Americans who live with their

B. higher than at any time since the Great Depression

C. parents has increased during the COVID – 19 pandemic, perhaps you

D. when the Pew Research Centre recently reported that the

E. saw some of the breathless headlines hyping how it's

- (A) ACDBE
(B) None of the orders is correct
(C) BCADE
(D) ACEBD
(E) DACEB

90. In the question given below, a sentence is given with two blanks, followed by five options, each having two options that may or may not fit in the blanks. Choose the one that gives the correct pair of words for the blanks.

Families on the base had been _____ for months about a foul odour and taste in their water, as well as illnesses _____ from vomiting to headaches, stomach pain, burning skin, and diarrhoea.

- (A) Cadging, varying (B) Complaining, ranging
(C) Tenacious, assorted (D) Reporting, dragging
(E) Register, differing

91. In the question given below, a sentence is given with two blanks, followed by five options, each having two options that may or may not fit in the blanks. Choose the one that gives the correct pair of words for the blanks.

Chemical fertilisers have played a/an _____ role in increasing agricultural output, however, the _____ on chemical fertilisers to increase agricultural output has major long – term consequences.

- (A) Important, reliance
(B) Significant, dependent
(C) Futile, interdependent
(D) Predominance, experience
(E) Reliant, important

92. In the question given below, a sentence is given with two blanks, followed by five options, each having two options that may or may not fit in the blanks. Choose the one that gives the correct pair of words for the blanks.

If community management systems are instituted now, the environment _____, and female literacy increased rapidly, it should be possible to see _____ decreases in population growth rates in these areas.

- (A) Assured, kinaesthetic (B) institutes, abhorrent
(C) Regenerated, rapid (D) Constructed, swiftly
(E) Build, dimly

Directions [93 – 100]: Read the passage carefully and answer the questions that follow.

The definition of biodiversity loss is described as the loss of life on Earth at various levels, ranging from reductions in genetic diversity to the collapse of entire ecosystems. In addition to its intrinsic value, biodiversity underpins ecosystem services, providing the backbone of the global economy.

The rate of loss has rapidly increased in recent years, to the point where many scientists believe that the world is currently experiencing a sixth mass **extinction**. Previous mass extinction events saw the existence of dinosaurs wiped out completely as well

as the disappearance of more than 95% of all species living at the time.

Biodiversity loss not only results in species extinction, but it also affects humans by depriving humanity of accessing services that natural ecosystems provide, whether it be the wealth of oxygen that we breathe or the benefits of pollination provided by animals in ensuring global food security. While biodiversity loss can occur naturally from more permanent ecological changes in ecosystems, landscapes, and the global biosphere, the current rapid rate of loss is a direct result of **rampant** human activity since the Industrial Revolution.

The single biggest contributor to global biodiversity loss is undoubtedly land and forest clearing to make way for urban and agricultural development. The latter of which has caused the loss of millions of hectares of trees to support the growing cattle and livestock industries, as well as mining activities. These ever – expanding industries are driven by global meat consumption, demand for commodities like paper and wood, and resources such as gold and other valuable minerals.

Decades of **persistent** land clearing means that we have lost significant amounts of natural habitats. Since forests especially are home to more than 80% of all terrestrial species of animals, plants and insects on the planet, millions of species have lost critical habitats to find shelter from prey and for reproduction, as well as increased food competition, causing population decline for many animals (and plants).

93. According to the above passage, biodiversity loss is
 (A) the biggest threat to human beings
 (B) the depletion of natural resources
 (C) the extinction of many animal species
 (D) the loss of life on Earth at various levels
 (E) the inability to preserve the quality of natural resources
94. As per the passage, why have we lost significant amounts of natural habitats?
 (A) Due to changes in climate
 (B) Due to continuous land clearing
 (C) Because of biodiversity loss
 (D) Because of the depletion of natural resources
 (E) All of the above
95. As per the passage, the biggest reason for biodiversity loss is
 (A) extinction of many species
 (B) destruction of land and forest
 (C) shortage of water and other resou
 (D) depletion of oxygen in the atmosphere
 (E) change in the climate
96. Which of the following is the correct meaning of – **rampant**?
 (A) reverse activities
 (B) ruthless destruction
 (C) spreading unchecked
 (D) the slow increase in something
 (E) wrong activities
97. According to the above passage, what has increased in recent years?
 (A) The rate of biodiversity loss
 (B) Depletion of the ozone layer
 (C) Pollution in the environment
 (D) Extinction of plant species
 (E) Depletion of coral reefs

98. Which of the following words is an antonym of the word – **extinction**?
 (A) allocation (B) destruction
 (C) prevention (D) erosion
 (E) extant
99. As per the passage, biodiversity loss has deprived human beings from
 (A) Discovering the natural resources
 (B) Exploring natural flora and fauna
 (C) Accessing services provided by natural ecosystems
 (D) Accessing clean drinking water
 (E) Fertile soil
100. Which of the following words can replace the word **persistent** without changing the meaning of the sentence?
 (A) gradual (B) shaky
 (C) irresolute (D) incessant
 (E) unsteady

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Reasoning Aptitude

1.

Answer: (D)

D और H के बीच छह व्यक्ति बैठे हैं।

Case 1:

H _ _ _ _ _ D _ _ _ _ _

Case 2:

_ _ _ _ _ D _ _ _ _ _ H

M, H के दायें से चौथे और R के ठीक बायें बैठा है।

Case 1:

H _ _ _ _ M R _ _ _ _ _

Case 2:

_ _ _ _ _ D _ _ _ _ _ H _ _ _ _ _ M R

R पंक्ति के किसी एक छोर से दूसरे स्थान पर बैठा है।
इस प्रकार, केस 1 रद्द हो जाता है।

Case 2:

_ _ _ _ _ D _ _ _ _ _ H _ _ _ _ _ M R

D और F के बीच पांच व्यक्ति बैठे हैं, जो V के बायीं ओर दूसरे स्थान पर बैठा है।

V पंक्ति के किसी एक छोर से चौथे स्थान पर बैठा है।

_ _ _ _ _ F V _ _ _ _ _ D _ _ _ _ _ H _ _ _ _ _ M R

यह अंतिम व्यवस्था है।

21 व्यक्ति एक पंक्ति में बैठे हैं।

2.

Answer: (A)

V, D के बाएं से चौथे स्थान पर बैठा है।

3.

Answer: (A)

M बुधवार को गया। संचालक दूसरा आखिरी व्यक्ति था।

व्यक्ति	पद	दिन
		सोमवार
		मंगलवार
M		बुधवार
		गुरुवार
		शुक्रवार
	संचालक	शनिवार
		रविवार

एचआर संचालक के साथ क्रमागत दिन पर गया। N और एचआर के बीच दो लोग गए।

केस 1:

व्यक्ति	पद	दिन
		सोमवार
N		मंगलवार
M		बुधवार
		गुरुवार
	एचआर	शुक्रवार
	संचालक	शनिवार
		रविवार

केस 2:

व्यक्ति	पद	दिन
		सोमवार
		मंगलवार
M		बुधवार
N		गुरुवार
		शुक्रवार

	संचालक	शनिवार
	एचआर	रविवार

R, O जो कि एमडी है, के तुरंत बाद गया।

केस 1:

व्यक्ति	पद	दिन
		सोमवार
N		मंगलवार
M		बुधवार
O	एमडी	गुरुवार
R	एचआर	शुक्रवार
	संचालक	शनिवार
		रविवार

केस 2a:

व्यक्ति	पद	दिन
O	एमडी	सोमवार
R		मंगलवार
M		बुधवार
N		गुरुवार
		शुक्रवार
	संचालक	शनिवार
	एचआर	रविवार

केस 2b:

व्यक्ति	पद	दिन
		सोमवार
		मंगलवार
M		बुधवार
N		गुरुवार
O	एमडी	शुक्रवार
R	संचालक	शनिवार
	एचआर	रविवार

R और उस व्यक्ति के बीच तीन व्यक्ति गए जो सीईओ है। तो, केस 2a अमान्य है।

केस 1:

व्यक्ति	पद	दिन
	सीईओ	सोमवार
N		मंगलवार
M		बुधवार
O	एमडी	गुरुवार
R	एचआर	शुक्रवार
	संचालक	शनिवार
		रविवार

केस 2b:

व्यक्ति	पद	दिन
		सोमवार
	सीईओ	मंगलवार
M		बुधवार
N		गुरुवार
O	एमडी	शुक्रवार
R	संचालक	शनिवार
	एचआर	रविवार

सहयोगी P के तुरंत बाद गया। S, Q से पहले गया। Q, M से वरिष्ठ है, जो N से वरिष्ठ है।

तो, केस 2b अमान्य है।

केस 1:

व्यक्ति	पद	दिन
---------	----	-----

P	सीईओ	सोमवार
N	सहायक	मंगलवार
M	प्रबन्धक	बुधवार
O	एमडी	गुरुवार
R	एचआर	शुक्रवार
S	संचालक	शनिवार
Q	अध्यक्ष	रविवार

○ गुरुवार को गया था।

4. **Answer: (A)**

S संचालक है।

5. **Answer: (B)**

4 लोग प्रबन्धक के बाद गए।

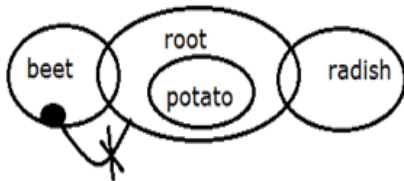
6. **Answer: (E)**

सभी कथन सत्य हैं।

7. **Answer: (A)**

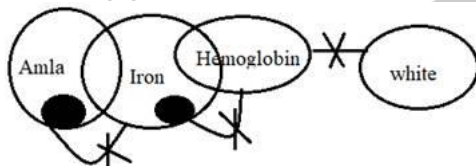
N मंगलवार को गया।

8. **Answer: (A)**



कुछ पोटेटो रेडिश नहीं हैं: ऐसी संभावना है कि सभी पोटेटो रेडिश हैं। निष्कर्ष I और II अनुसरण नहीं करते हैं। लेकिन (I) नकारात्मक है और (II) सकारात्मक कथन है। तो, या तो (I) या (II) अनुसरण करता है।

9. **Answer: (D)**



सभी आयरन कभी वाइट नहीं हो सकते। कुछ आयरन हीमोग्लोबिन हैं और कोई हीमोग्लोबिन वाइट नहीं है। तो, I अनुसरण करता है।

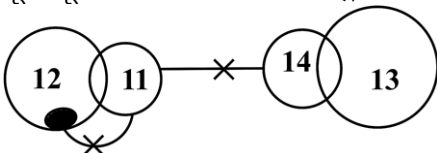
कोई हीमोग्लोबिन आंवला नहीं है। कुछ आयरन आंवला हो सकते हैं और सभी हीमोग्लोबिन आयरन हो सकते हैं। इसलिए, II अनुसरण नहीं करता है।

10. **Answer: (B)**

दिए गए कथन हैं,

केवल कुछ 12 ही 11 हैं। कुछ 14, 13 हैं। कोई 14, 11 नहीं हैं।

मूल न्यूनतम ओवरलैपिंग आरेख है,



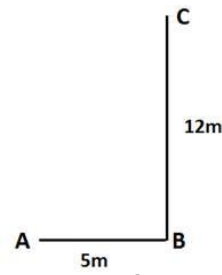
यहां, सभी 13 कभी 11 नहीं हो सकते और कुछ 12, 11 नहीं हैं।

अतः, केवल निष्कर्ष II अनुसरण करता है।

11. **Answer: (E)**

कथन I:

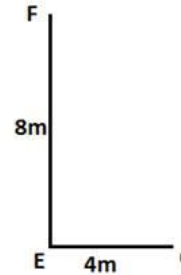
बिंदु B, बिंदु A से 5 मीटर पूर्व में है। बिंदु C, बिंदु B से 12 मीटर उत्तर में है।



हमारे पास और कोई जानकारी नहीं है। इसलिए, केवल कथन I पर्याप्त नहीं है।

कथन II:

बिंदु E, बिंदु C से 4 मीटर पश्चिम में है। बिंदु F, बिंदु E से 8 मीटर उत्तर में है।

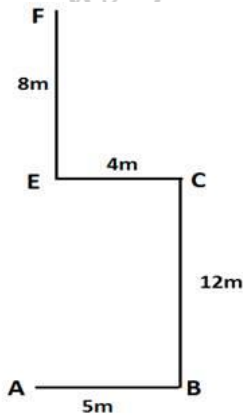


हमारे पास और कोई जानकारी नहीं है। इसलिए, केवल कथन II पर्याप्त नहीं है।

कथन I और II:

बिंदु B, बिंदु A से 5 मीटर पूर्व में है। बिंदु C, बिंदु B से 12 मीटर उत्तर में है।

बिंदु E, बिंदु C से 4 मीटर पश्चिम में है। बिंदु F, बिंदु E से 8 मीटर उत्तर में है।



यहां हमें पता चलता है कि बिंदु F, बिंदु A से उत्तर-पूर्व दिशा में है।

इसलिए, कथन I और II दोनों में डेटा एक साथ आवश्यक है।

अतः, 'e' सही विकल्प है।

12.

Answer: (D)

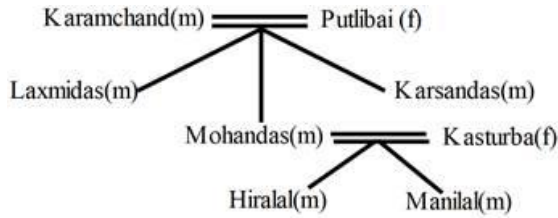
करमचंद का विवाह पुतलीबाई से हुआ था। करसनदास करमचंद का अविवाहित पुत्र था। पुतलीबाई लक्ष्मीदास की माँ थीं जो एक पुरुष थे।

Karamchand(m) = Putlibai(f)

Laxmidas(m)

Karsandas(m)

कस्तूरबा करमचंद की बहू थीं। मणिलाल मोहनदास के पुत्र थे। हीरालाल कस्तूरबा के पुत्र और मणिलाल के भाई थे।



हीरालाल करसनदास का भतीजा है।

13. **Answer: (C)**

कस्तूरबा लक्ष्मीदास की भाभी हैं।

14. **Answer: (A)**

यह दिया गया है कि,

आठ मित्र A, B, C, D, E, F, G और H हैं।

C से छोटी शर्ट पहनने वाले दोस्तों की संख्या H से बड़ी शर्ट पहनने वाले दोस्तों की संख्या से तीन गुना है।

दूसरी सबसे बड़ी शर्ट का आकार 44 है, जिसे H ने नहीं पहना है।

E, H से बड़ी शर्ट पहनता है और केवल दो दोस्त B से छोटी शर्ट पहनते हैं।

इसलिए, C 44 साइज़ की शर्ट पहनता है। केवल दो दोस्त H से बड़ी शर्ट पहनते हैं और छह दोस्त C से छोटी शर्ट पहनते हैं।

हम पाते हैं,

E > C (44) > H > ___ > ___ > B > ___ > ___

A, G से तुरंत बड़ी शर्ट पहनता है, जो एक आकार का शर्ट पहनता है, जो एक पूर्ण वर्ग है।

D, F से ठीक छोटी शर्ट पहनता है।

F, A से छोटी शर्ट पहनता है और ऐसे आकार की शर्ट पहनता है जो तीन और पांच दोनों से विभाज्य है।

इसलिए, एकमात्र संभावना यह है कि G 36 साइज़ की शर्ट पहनता है और F 30 साइज़ की शर्ट पहनता है। (एक पूर्ण वर्ग की एकमात्र संभावना 36 है और 3 और 5 से विभाज्य एकमात्र संभावित आकार 30 है।)

अंतिम व्यवस्था है,

E > C (44) > H > A > G (36) > B > F (30) > D

यहाँ, तीन दोस्त A से बड़ी शर्ट पहनते हैं।

15. **Answer: (C)**

A और G द्वारा पहनी गई शर्ट के आकार का योग 74 है।

अतः, A की शर्ट का आकार = 74 - 36 = 38.

अतः, H की शर्ट का संभावित आकार 40 और 42 है।

16. **Answer: (E)**

यहाँ, B की शर्ट का संभावित आकार 34 है।

17. **Answer: (D)**

$Q < R$

$R > A > Z = E \leq D$

इसलिए, कथन I अनुसरण नहीं करता है।

$R > A > Z = E$

$N < C \leq Q < R$

इसलिए, कथन II अनुसरण नहीं करता है।

18. **Answer: (C)**

दिया गया कथन है: $H \geq T \leq U = P$; $T \geq X < C > K$

$U \geq T \geq X < C$. यहाँ, U और C के बीच संबंध स्थापित नहीं किया जा सकता है। तो, निष्कर्ष (a) गलत है और निष्कर्ष (d) भी गलत है।

और, $U > C$; $U = C$ तथा $U < C$. तो, या तो (a) या (d) अनुसरण करता है।

$H \geq T \geq X < C > K$. यहाँ, K और H के बीच संबंध स्थापित नहीं किया जा सकता है। तो, निष्कर्ष (b) गलत है

$X \leq T \leq U = P$. यहाँ, $P \geq X$. तो, निष्कर्ष (e) सत्य है।

19.

Answer: (E)

कॉफ़ी चॉकलेट बॉक्स को स्टैक 5 के नीचे एक सम संख्या वाले स्टैक पर रखा गया है।

कॉफ़ी बॉक्स और पल्स बॉक्स के बीच केवल एक बॉक्स रखा गया है, जिसमें चॉकलेट की संख्या सबसे अधिक है।

उच्चतम चॉकलेट = 17

स्टैक	चॉकलेट	संख्या	चॉकलेट	संख्या	चॉकलेट	संख्या
	केस 1		केस 2		केस 3	
6	पल्स	17				
5						
4	कॉफ़ी		कॉफ़ी		पल्स	17
3						
2			पल्स	17	कॉफ़ी	
1						

अभाज्य संख्या वाली चॉकलेट वाले डिब्बे और जेम बॉक्स, जो पल्स डिब्बे के ठीक नीचे है, के बीच दो डिब्बे रखे गए हैं।

इस प्रकार, केस 2 रद्द हो जाता है।

अभाज्य संख्या शेष = 2, 11

स्टैक	चॉकलेट	संख्या	चॉकलेट	संख्या
	केस 1		केस 3	
6	पल्स	17		2 / 11
5	जेम			
4	कॉफ़ी		पल्स	7
3			जेम	
2		2 / 11	कॉफ़ी	
1				

मंच बॉक्स, पर्क बॉक्स के ठीक नीचे है, जिसमें कई चॉकलेट हैं जो घन संख्या है।

घन संख्या = 8.

केस 3 में यह संभव नहीं है, इसलिए इसे रद्द किया जाता है।

स्टैक	चॉकलेट	संख्या
	केस 1	
6	पल्स	17
5	जेम	
4	कॉफ़ी	
3	पर्क	8
2	मंच	2 / 11
1		

अब, केवल मेलोडी ही शेष है।

जेम्स बॉक्स में चॉकलेट की संख्या मेलोडी बॉक्स में चॉकलेट से पांच अधिक है। जेम्स को मेलोडी के ऊपर रखा गया है।

अतः इसकी एकमात्र संभावना है -

जेम्स = 9

मेलोडी = 4

स्टैक	चॉकलेट	संख्या
6	पल्स	17
5	जेम	9
4	कॉफ़ी	
3	पर्क	8
2	मंच	2 / 11
1	मेलोडी	4

कॉफ़ी बॉक्स में चॉकलेट की संख्या मंच बॉक्स में चॉकलेट की संख्या से अधिक है।

स्टैक	चॉकलेट	संख्या
6	पल्स	17
5	जेम	9
4	कॉफ़ी	11
3	पर्क	8
2	मंच	2
1	मेलोडी	4

यह अंतिम व्यवस्था है।

चूँकि मेलोडी चॉकलेट का डिब्बा सबसे निचले ढेर पर रखा गया है, कोई भी डिब्बा उसके नीचे नहीं है।

20. **Answer: (C)**

जेम = 9

कॉफ़ी = 11

औसत = $(11 + 9)/2 = 10$

21. **Answer: (E)**

पर्क चॉकलेट बॉक्स को कॉफ़ी चॉकलेट बॉक्स के ठीक नीचे रखा गया है और इसमें 8 चॉकलेट हैं जो घन संख्या में हैं।

22. **Answer: (B)**

S और N के बीच दो छात्र बैठे हैं, जो पंक्ति के ठीक बीच में बैठा है।

Case 1-

Left S _____ N _____ Right

Case 2-

Left _____ N _____ S _____ Right

वह छात्र जिसकी आयु अभाज्य संख्या है, P के बायीं ओर दूसरे स्थान पर बैठा है, जो N के बगल में बैठा है।

न तो S और न ही M की आयु अभाज्य संख्या है।

21 से 27 के बीच एक अभाज्य संख्या = 23

Case 1-

Left S _____ 23 _____ N _____ P _____ Right

Case 2-

Left _____ 23 _____ N _____ P _____ S _____ Right

Case 2a-

Left 23 _____ P _____ N _____ _____ S _____ Right

वह छात्र जिसकी आयु पूर्ण वर्ग है, M के दायें से चौथे स्थान पर बैठा है।

पूर्ण वर्ग = 25

M न तो पंक्ति के अंत में बैठा है और न ही P के निकट बैठा है।

न तो S और न ही M की आयु अभाज्य संख्या है।

इस प्रकार, केस 2a रद्द हो जाता है।

Case 1-

Left S _____ M _____ 23 _____ N _____ P _____ 25 _____ Right

Case 2-

Left _____ M _____ 23 _____ N _____ P _____ 25 _____ S _____ Right

वह छात्र जिसकी आयु पूर्ण घन है, Z के बाईं ओर तीसरे स्थान पर बैठा है, जिसकी आयु 26 वर्ष है।

पूर्ण घन = 27

इस प्रकार, केस 2 रद्द हो जाता है।

Case 1-

Left S _____ M _____ 23 _____ N _____ 27 _____ P _____ 25 _____ Z _____ 26 _____ Right

T सबसे कम उम्र के छात्र के ठीक दायें बैठा है।

सबसे कम उम्र का छात्र = जिसकी उम्र 21 वर्ष है।

P की उम्र न तो 21 और न ही 24 है।

अतः इसकी एकमात्र संभावना यह है -

Left S _____ M _____ 21 _____ T _____ 23 _____ N _____ 27 _____ P _____ 22 _____ 25 _____ Z _____ 26 _____ Right

अब, एकमात्र छात्र W बचा है और उसकी आयु 24 वर्ष बची है।

Left S _____ 24 _____ M _____ 21 _____ T _____ 23 _____ N _____ 27 _____ P _____ 22 _____ 25 _____ W _____ Z _____ 26 _____ Right

यह अंतिम व्यवस्था है।

S, 24 वर्ष का है।

23. **Answer: (C)**

M की आयु 21 वर्ष है और M और W के बीच तीन व्यक्ति बैठे हैं।

24. **Answer: (A)**

P को छोड़कर, अन्य सभी व्यक्तियों की आयु एक विषम संख्या है।

25. **Answer: (D)**

S उस व्यक्ति का निकटतम पड़ोसी है जिसकी उम्र 21 वर्ष है।

इसी प्रकार, Z उस व्यक्ति का निकटतम पड़ोसी है जिसकी उम्र 25 वर्ष है।

26. **Answer: (E)**

T, N के ठीक बायें बैठा है, जिसकी उम्र 27 वर्ष है।

27. **Answer: (C)**

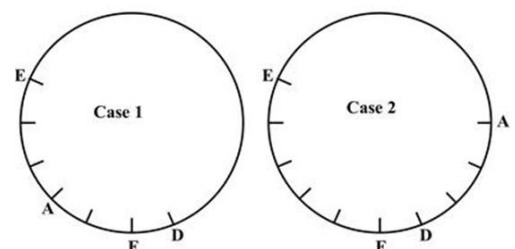
यह दिया गया है कि,

ज्ञात लोग A, B, C, D, E, F, G, और H हैं।

E, F के बायीं ओर पांचवें स्थान पर बैठा है, जो D के ठीक बायीं ओर बैठा है।

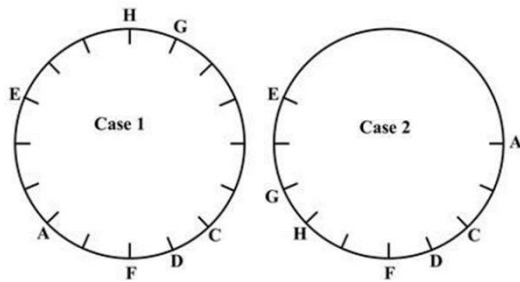
A और D के बीच केवल दो व्यक्ति बैठे हैं।

हम पाते हैं,

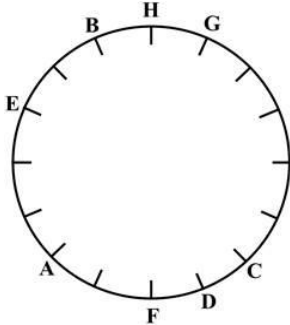


A, H के दाएँ से छठे स्थान पर बैठा है, जो G के ठीक दाएँ बैठा है।
G और C, जो D के बगल में बैठा है, के बीच चार लोग बैठे हैं।

We get,



C से प्रारंभ करके दक्षिणावर्त दिशा में गिनती करने पर B और C के बीच बैठे व्यक्तियों की संख्या आठ है।
A से शुरू करके दक्षिणावर्त दिशा में गिनती करने पर B और A के बीच आठ से कम लोग बैठे हैं।
B और A एक दूसरे के बगल में नहीं बैठे हैं।
यहाँ, केस 2 अमान्य है क्योंकि B को समायोजित नहीं किया जा सकता है।
अंतिम व्यवस्था है,



यहाँ, A, G के बाएँ से नौवें स्थान पर बैठा है और C के दाएँ से बारहवें स्थान पर बैठा है।

28. **Answer: (C)**

यहाँ गोलाकार मेज के चारों ओर बैठे व्यक्तियों की संख्या सोलह है।

29. **Answer: (A)**

H से प्रारंभ करके दक्षिणावर्त दिशा में गिनती करने पर H और D के बीच बैठे व्यक्तियों की संख्या छह है।

30. **Answer: (B)**

W	O	R	R	I	E	D	L	Y
1	2	3	4	5	6	7	8	9
O	R	D	L					
nd	4 th	7 th	th					

अतः जो शब्द बनता है वह LORD है।
तो, दाएँ छोर से पहला अक्षर 'D' है।

31. **Answer: (D)**

96358741

आगे:

963(5)8(7)41

पीछे की ओर:

9635(87)41

963(5)874(1)

तो, अंकों के तीन जोड़े हैं।

32. **Answer: (E)**

CRYSTAL

चार 3 अक्षर वाले शब्द यानी Try, Cry, SLY और STY 'CRYSTAL' शब्द के सभी व्यंजनों से बने हैं।
इस प्रकार, उत्तर 'a' है।

33. **Answer: (D)**

CONCEPT

आगे:

C(O)NCEP(T)

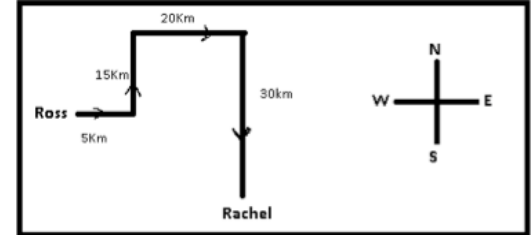
पीछे की ओर:

C(O)(N)CEPT

तो, अक्षरों के दो जोड़े हैं।

34. **Answer: (B)**

रॉस की प्रारंभिक स्थिति के संबंध में रेचल दक्षिण-पूर्व दिशा में है।



इसलिए, विकल्प b।

35. **Answer: (B)**

यहाँ, विकल्प (b) बेजोड़ है।

a) BRV ⇒ B (CDE) F और R (STU) V

b) PWTZ ⇒ P (QRS) T और W (XY) Z

c) LTPX ⇒ L (MNO) P और T (UVW) X

d) MLQP ⇒ M (NOP) Q और L (MNO) P

e) ESIW ⇒ E (FGH) I और S (TUV) W

Quantitative Aptitude

36. **Answer: (B)**

द्वितीय श्रेणी (2S) के लिए,

रिक्त सीटों की संख्या = 12

बुक की गई सीटों का प्रतिशत = 98

माना कक्षा 2S में सीटों की कुल संख्या 't' है।

प्रश्नानुसार, 2% of t = 12

⇒ 2t = 1200

⇒ t = 600

इसी प्रकार, हम सभी वर्गों के लिए मानों की गणना करते हैं और उन्हें सारणीबद्ध करते हैं।

श्रेणी	सीटों की कुल संख्या	रिक्त सीटों की संख्या	बुक की गई सीटों की संख्या
2S	600	12	588
SL	700	56	644
3A	300	42	258
2A	200	44	156
1A	150	9	141

आवश्यक योग = 588 + 644 + 258 + 156 + 141 = 1787

37. **Answer: (D)**

श्रेणी 2S में सीटों की संख्या = 600

श्रेणी 2A में सीटों की संख्या = 200

2S और 2A कक्षाओं में सीटों की कुल संख्या = 600 + 200 = 800

श्रेणी SL में सीटों की संख्या = 700

श्रेणी 3A में सीटों की संख्या = 300
SL और 3A श्रेणी में सीटों की कुल संख्या = 700 + 300 = 1000
आवश्यक % = $(1000 - 800)/1000 \times 100 = 20\%$

38. **Answer: (B)**

रिक्त सीटों की कुल संख्या = 12 + 56 + 42 + 44 + 9 = 163
ट्रेन में सीटों की कुल संख्या = 600 + 700 + 300 + 200 + 150 = 1950
आवश्यक % = $(163/1950) \times 100 = 8.36\%$ लगभग

39. **Answer: (E)**

श्रेणी 3A में बुक की गई सीटों की कुल संख्या = 258
श्रेणी 3A में सीट बुक करने वाले पुरुष और महिला का अनुपात = 25:18
पुरुषों की संख्या = $(25/43) \times 258 = 150$
महिलाओं की संख्या = $(18/43) \times 258 = 108$
श्रेणी 2A में बुक की गई सीटों की कुल संख्या = 156
श्रेणी 2A में सीट बुक करने वाली महिला और पुरुष का अनुपात = 6:7
महिलाओं की संख्या = $6/13 \times 156 = 72$
पुरुषों की संख्या = $7/13 \times 156 = 84$
श्रेणी 3A और श्रेणी 2A में सीटें बुक करने वाले पुरुषों की कुल संख्या = 150 + 84 = 234
श्रेणी 1A में बुक की गई सीटों की कुल संख्या = 141
अतः अभीष्ट अंतर = 234 - 141 = 93

40. **Answer: (B)**

ट्रेन में बुक की गई सीटों की कुल संख्या = 1787
ट्रेन में कुल सीटें = 1950
उत्त्रयन प्रक्रिया पूरी होने के बाद कक्षा 1A, 2A, 3A, SL की सभी सीटें भर जाएंगी।
कक्षा 2S में रिक्त सीटें सृजित की जाएंगी = 1950 - 1787 = 163
इसलिए, श्रेणी SL में कोई सीट खाली नहीं होगी क्योंकि श्रेणी 1A, 2A, 3A और SL में कुल सीटों का योग ट्रेन में बुक की गई कुल सीटों से कम है।
 $\Rightarrow 1350 < 1787$
सभी रिक्तियां केवल कक्षा 2S में निकाली जाएंगी।

41. **Answer: (C)**

श्रेणी 2A में बुक की गई कुल सीटें = 156
श्रेणी 3A में सीटों की कुल संख्या = 300
आवश्यक अनुपात = 156: 300 = 13: 25

42. **Answer: (B)**

सभी 7 बोरियों के वजन का योग = $29 \times 7 = 203$ किग्रा
प्रथम तीन बोरियों के वजन का योग = $31 \times 3 = 93$ किग्रा
पांचवीं बोरी का वजन = चौथी बोरी का वजन - 10
छठी और सातवीं बोरी के वजन का योग = $(31 - 3) \times 2 = 56$ किलो
अब,
 $93 + \text{चौथी बोरी का वजन} + \text{चौथी बोरी का वजन} - 10 + 56 = 203$
 $2 \times \text{चौथी बोरी का वजन} = 203 - 93 - 46$
 $2 \times \text{चौथी बोरी का वजन} = 203 - 139 = 64$
चौथी बोरी का वजन = $64/2 = 32$ किलो

43. **Answer: (E)**

समीकरण I से:

$$x^2 + 11x - 12 = (x - 1)(x + 12) = 0$$

$$\Rightarrow x = 1, -12$$

समीकरण II से:

$$y^2 + 27y + 152 = (y + 19)(y + 8) = 0$$

$$\Rightarrow y = -19, -8$$

	X = 1	X = -12
Y = -19	$x > y$	$x > y$
Y = -8	$x > y$	$x < y$

इसलिए, x और y के बीच संबंध स्थापित नहीं किया जा सकता है।

44. **Answer: (C)**

समीकरण I से:

$$x^2 + 4x - 45 = 0$$

$$x^2 - 5x + 9x - 45 = 0$$

$$(x + 9)(x - 5) = 0$$

$$x = -9, 5$$

समीकरण II से:

$$y^2 + 12y - 45 = 0$$

$$y^2 - 3y + 15y - 45 = 0$$

$$(y + 15)(y - 3) = 0$$

$$y = -15, 3$$

जब $x = -9, y = -15$, तब $x > y$

जब $x = -9, y = 3$, तो $x < y$

जब $x = 5, y = -15$, तो $x > y$

जब $x = 5, y = 3$, तो $x > y$

इसलिए, x और y के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

45. **Answer: (A)**

व्यक्ति A के पास:

$$\text{आम} + \text{अंजीर} = 300$$

$$\text{अंजीर} - \text{आम} = 100$$

इन दो समीकरणों को हल करने पर.

$$\text{आम} = 100, \text{अंजीर} = 200$$

व्यक्ति B के पास:

$$\text{आम} + \text{अंजीर} = 500$$

$$\text{अंजीर} - \text{आम} = 100$$

इन दो समीकरणों को हल करने पर.

$$\text{आम} = 200$$

$$\text{अंजीर} = 300$$

व्यक्ति C के पास:

$$\text{आम} + \text{अंजीर} = 200$$

$$\text{अंजीर} - \text{आम} = 0$$

इन दो समीकरणों को हल करने पर.

$$\text{आम} = \text{अंजीर} = 100$$

व्यक्ति D के पास:

$$\text{आम} + \text{अंजीर} = 1200$$

$$\text{अंजीर} - \text{आम} = 200$$

इन दोनों समीकरणों को हल करने पर.

$$\text{आम} = 500, \text{अंजीर} = 700$$

व्यक्ति E के पास:

$$\text{आम} + \text{अंजीर} = 800$$

$$\text{अंजीर} - \text{आम} = 200$$

इन दोनों समीकरणों को हल करने पर.

$$\text{आम} = 300, \text{अंजीर} = 500$$

व्यक्ति	आम	अंजीर
A	100	200

B	200	300
D	500	700
E	300	500

आम और अंजीर की आइसक्रीम A के पास क्रमशः 100, 200 है।

पैसा कमाया = $100 \times 10 + 20 \times 200 = 1000 + 4000 = ₹5000$

46. **Answer: (A)**

आम और अंजीर की आइसक्रीम B के पास क्रमशः 200, 300 है।

आवश्यक मान = $80/100 \times 200 + 70/100 \times 300$
 $= 160 + 210 = 370$

47. **Answer: (A)**

F के साथ आम वाली आइसक्रीम = $100 + 300 = 400$

F के साथ अंजीर वाली आइसक्रीम = $2 \times 100 = 200$

कुल आइसक्रीम = $400 + 200 = 600$

48. **Answer: (D)**

B, C, E के पास आम वाली आइसक्रीम का औसत = $(200 + 100 + 300)/3 = 600/3 = 200$

G के पास अंजीर आइसक्रीम = $200 \times 2 = 400$

आवश्यक प्रतिशत = $200/400 \times 100 = 50\%$

49. **Answer: (A)**

बेकरी A:

बेचे गए चॉकलेट केक की संख्या = $180 \times (80^\circ/360^\circ)$
 $= 40$

तो, बेचे गए वेनिला केक की संख्या = $40 \times (80/100)$
 $= 32$

और बेचे गए स्ट्रॉबेरी केक की संख्या = $32 \times (3/2)$
 $= 48$

बेकरी B:

बेचे गए चॉकलेट केक की संख्या = $180 \times (60^\circ/360^\circ)$
 $= 30$

तो, बेचे गए वेनिला केक की संख्या = $30 \times (120/100)$
 $= 36$

और बेचे गए स्ट्रॉबेरी केक की संख्या = $36 \times (5/4)$
 $= 45$

बेकरी C:

बेचे गए चॉकलेट केक की संख्या

= $180 \times (100^\circ/360^\circ) = 50$

तो, बेचे गए वेनिला केक की संख्या

= $50 \times (80/100) = 40$

और बेचे गए स्ट्रॉबेरी केक की संख्या

= $40 \times (3/5) = 24$

बेकरी D:

बेचे गए चॉकलेट केक की संख्या = $180 \times (80^\circ/360^\circ)$
 $= 40$

तो, बेचे गए वेनिला केक की संख्या = $40 \times (75/100)$
 $= 30$

और बेचे गए स्ट्रॉबेरी केक की संख्या = $30 \times (7/5)$
 $= 42$

बेकरी E:

बेचे गए चॉकलेट केक की संख्या = $180 \times (40^\circ/360^\circ)$
 $= 20$

तो, बेचे गए वेनिला केक की संख्या = $20 \times (140/100)$
 $= 28$

और बेचे गए स्ट्रॉबेरी केक की संख्या = $28 \times (5/4)$

= 35

बेकरी C द्वारा बेचे गए वेनिला केक की संख्या = 40

बेकरी D द्वारा बेचे गए वेनिला केक की संख्या = 30

बेकरी E द्वारा बेचे गए वेनिला केक की संख्या = 28

आवश्यक प्रतिशत = $[(30 + 28)/40] \times 100 = 145\%$

50. **Answer: (B)**

बेकरी A द्वारा बेचे गए चॉकलेट केक की संख्या = 40

बेकरी A द्वारा बेचे गए वेनिला केक की संख्या = 32

बेकरी A द्वारा बेचे गए स्ट्रॉबेरी केक की संख्या = 48

तो, बेकरी A द्वारा प्राप्त कुल राशि = $(40 \times 450) + (32 \times 400) + (48 \times 300)$

= ₹45200

51. **Answer: (C)**

बेकरी बी द्वारा बेचे गए केक की कुल संख्या = $30 + 36 + 45 = 111$

बेकरी C द्वारा बेचे गए केक की कुल संख्या = $50 + 40 + 24 = 114$

आवश्यक अंतर = $114 - 111 = 3$

52. **Answer: (D)**

बेकरी C द्वारा बेचे गए चॉकलेट केक की संख्या = 50

बेकरी C द्वारा बेचे गए वेनिला केक की संख्या = 40

बेकरी C द्वारा बेचे गए स्ट्रॉबेरी केक की संख्या = 24

आवश्यक प्रतिशत = $[(40 + 24 - 50)/50] \times 100$
 $= 28\%$

53. **Answer: (B)**

बेकरी बी द्वारा बेचे गए केक की कुल संख्या = $30 + 36 + 45 = 111$

बेकरी E द्वारा बेचे गए केक की कुल संख्या = $20 + 28 + 35 = 83$

आवश्यक औसत = $(111 + 83)/2 = 97$

54. **Answer: (E)**

पैटर्न इस प्रकार है:

$6 \times 4 + 1^2 = 25$

$8 \times 6 + 2^2 = 52$

$10 \times 8 + 3^2 = 89$

$12 \times 10 + 4^2 = 136$

$14 \times 12 + 5^2 = 193$

$16 \times 14 + 6^2 = 260$

55. **Answer: (B)**

दी गई श्रृंखला के लिए तर्क:

$6615 \div 4.5 = 1470$

$1470 \div 4 = 367.5$

$367.5 \div 3.5 = 105$

$105 \div 3 = 35$

$35 \div 2.5 = 14$

$14 \div 2 = 7$

इसलिए, गलत पद = 735

56. **Answer: (C)**

दी गई श्रृंखला के लिए तर्क:

$31 + 1^2 = 32$

$32 - 2^2 = 28$

$28 + 3^2 = 37$

$37 - 4^2 = 21$

$21 + 5^2 = 46$

तो, गलत पद = 42

57. **Answer: (E)**

पैटर्न इस प्रकार है:

$$6 + 25 \times 1 = 31$$

$$31 + 25 \times 2 = 81$$

$$81 + 25 \times 3 = 156$$

$$156 + 25 \times 4 = 256$$

$$256 + 25 \times 5 = 381$$

58. **Answer: (B)**

पैटर्न इस प्रकार है:

$$17 + 1^3 - 1 = 17$$

$$17 + 2^3 - 1 = 24$$

$$24 + 3^3 - 1 = 50$$

$$50 + 4^3 - 1 = 113$$

$$113 + 5^3 - 1 = 237$$

$$237 + 6^3 - 1 = 452$$

59. **Answer: (C)**

प्रारंभिक अनुपात = 6:5:7

बढ़ा हुआ अनुपात = 8:7:9

यहाँ हम देख सकते हैं कि प्रत्येक पद में समान संख्या से वृद्धि हुई है -

$$8 - 6 = 7 - 5 = 9 - 7 = 2$$

तो, 2 इकाइयाँ = 30 पुस्तकें

$$1 \text{ इकाई} = 15 \text{ पुस्तकें}$$

$$8 + 7 + 9 = 24 \text{ इकाइयाँ}$$

$$24 \text{ इकाइयाँ} = 15 \times 24 = 360 \text{ पुस्तकें।}$$

आवश्यक उत्तर = 360 पुस्तकें।

60. **Answer: (C)**

माना A और B की गति क्रमशः 'a' किमी/घंटा और 'b' किमी/घंटा है।

एक दूसरे की ओर यात्रा करते समय A और B की सापेक्ष गति = (a + b)

प्रश्न के अनुसार:

$$54/(a + b) = 48/60 = 4/5$$

$$(a + b) = (54 \times 5)/4$$

$$(a + b) = 67.5 \dots\dots (1)$$

$$[a \times (48/60)] - [b \times (48/60)] = 2$$

$$(a - b) = 2 \times (5/4)$$

$$(a - b) = 2.5 \dots\dots (2)$$

(1) और (2) से:

$$a = (67.5 + 2.5)/2 = 35$$

A की गति = a = 35 किमी/घंटा

61. **Answer: (B)**

माना वर्ग की भुजा 9x सेमी है और अर्धवृत्त की त्रिज्या 14x सेमी है।

प्रश्न के अनुसार,

$$4 \times 9x + 22/7 \times 14x + 2 \times 14x = 324$$

$$\Rightarrow 36x + 44x + 28x = 324$$

$$\Rightarrow 108x = 324$$

$$\Rightarrow x = 3$$

अतः वर्ग की भुजा = $9 \times 3 = 27$ सेमी

अतः वर्ग का क्षेत्रफल = $27^2 = 729$ सेमी²

62. **Answer: (B)**

M द्वारा निवेश की गई कुल राशि = (13000×18)

N द्वारा निवेश की गई कुल राशि = (16800×15)

O द्वारा निवेश की गई कुल राशि = (20000×9)

लाभ में उनके शेयरों का अनुपात = $(13000 \times 18):$

$(16800 \times 15): (20000 \times 9) = 13: 14: 10$

M और N के हिस्से के बीच का अंतर = $18500 \times [(14 - 13)/37] = ₹500$

N और O के हिस्से के बीच का अंतर = $18500 \times [(14 - 10)/37] = ₹2000$

आवश्यक योगफल = $500 + 2000 = ₹2500$

63. **Answer: (A)**

मान लीजिए कुल कार्य (एलसीएम 10,15,25) = 150 है।

X की दक्षता = $(150/10) = 15$

Y की दक्षता = $(150/15) = 10$

Z की दक्षता = $(150/25) = 6$

माना कार्य z दिनों में पूरा हो जाएगा।

$$[15 \times (z - 2) + 6 \times (z - 1) + 10 \times z] = 150$$

$$15z - 30 + 6z - 6 + 10z = 150$$

$$31z - 36 = 150$$

$$31z = 186$$

$$z = 6$$

64. **Answer: (D)**

$$79.99\% \text{ of } 25.05 - 9.9 \times 117.11 \div 9.11 = ?$$

$$\Rightarrow 80\% \text{ of } 25 - 10 \times 117 \div 9 = ?$$

$$\Rightarrow 80/100 \times 25 - 130 = ?$$

$$\Rightarrow 20 - 130 = ?$$

$$\Rightarrow ? = -110$$

65. **Answer: (C)**

$$(39.99 \times 15.18) - (24.12 \times 9.99) - (0.99 \times 72.02) = ?$$

$$(40 \times 15) - (24 \times 10) - (1 \times 72) = ?$$

$$600 - 240 - 72 = ?$$

$$? = 288$$

66. **Answer: (A)**

3 या 5 का गुणज = (3, 6, 9, 12, 15, 18, 21, 5, 10, 20)

आवश्यक प्रायिकता = $10/22 = 5/11$.

67. **Answer: (C)**

यहाँ, तीन मित्रों A, B और C की वर्तमान आयु का योग 86 वर्ष है।

$$A + B + C = 86 \dots (i)$$

C, B से 4 वर्ष बड़ा है। तो,

$$C = 4 + B \dots (ii)$$

चार वर्ष पहले, A और B की आयु का अनुपात क्रमशः

3:2 था। तब,

$$3:2 = (A - 4):(B - 4)$$

$$3(B - 4) = 2(A - 4)$$

$$3B - 12 = 2A - 8$$

$$2A = 3B - 4$$

$$A = (3B - 4)/2 \dots (iii)$$

अब, (i), (ii) और (iii) से, हमारे पास है

$$(3B - 4)/2 + B + 4 + B = 86$$

$$3B - 4 + 2(2B + 4) = 2 \times 86$$

$$3B - 4 + 4B + 8 = 172$$

$$7B = 172 - 4$$

$$7B = 168$$

$$B = 24$$

अतः, B की वर्तमान आयु = 24 वर्ष

68. **Answer: (A)**

चूँकि हानि 5% है।

अतः विक्रय मूल्य = लागत मूल्य का 95%

$$31160 = (95/100) \times \text{लागत मूल्य}$$

$$\text{लागत मूल्य} = 32800$$

अब लाभ % = 12%

नया विक्रय मूल्य = लागत मूल्य का 112%

$$= (112/100) \times 32800$$

$$= ₹36736$$

69. **Answer: (A)**

माना कि टैंक को भरने के लिए आवंटित वाल्वों की संख्या 'y' है।

जल निकासी प्रयोजन के लिए आवंटित वाल्वों की संख्या होगी (15 - y)

भरने के लिए उपयोग किया गया मान शोधक को 15 घंटे में भर देता है।

अतः 1 घंटे में यह शोधक का 1/15वाँ भाग भर सकता है।

इसी प्रकार, जल निकासी के लिए उपयोग किया जाने वाला मान 30 घंटों में शोधक को खत्म कर देता है।

तो, 1 घंटे में यह प्युरीफायर का 1/30वाँ हिस्सा खत्म कर सकता है।

दिया गया है, सभी वाल्व खुले होने पर इसे भरने में 2 घंटे लगे।

तो समीकरण बन जाता है

$$(2 \times y)/15 - (2 \times (15 - y))/30 = 1$$

हल करने पर, y = 10

इसलिए शोधक को भरने के लिए आवंटित वाल्वों की संख्या = 10

प्युरीफायर को खाली करने के लिए आवंटित वाल्वों की संख्या 5 होगी

जल निकासी के उद्देश्य से आवंटित वाल्वों का प्रतिशत = $5/15 \times 100 = 33.33\%$

70. **Answer: (B)**

माना अंकित मूल्य और विक्रय मूल्य क्रमशः MP और विक्रय मूल्य SP है।

$$\text{दिया गया, } MP + SP = 2820 \text{ --- (1)}$$

$$MP - SP = 1020 \text{ --- (2)}$$

(1) और (2) को हल करने पर, हमें मिलता है

$$MP = ₹1920$$

$$SP = ₹900$$

$$\text{प्रशानुसार, } 1920 \times \frac{3}{4} \times \frac{(100 - y)}{100} = 900$$

$$\Rightarrow 144 \times (100 - y) = 9000$$

$$\Rightarrow y = 37.5\%$$

English Language

71. **Answer: (B)**

The verb 'tell' is followed by an **indirect object (me, him, her, etc.) without 'to'**.

Example sentence: Tanu told him that she is happy. (not: told **to** him)

Hence, the phrase requires improvement.

So, the highlighted phrase should be 'finally told me'.

The verb 'informed' does not require 'to' after it, and the verbs 'revealed' and 'explained' should be followed by 'to'. All choices I – III are grammatically correct and convey the same meaning as the highlighted phrase.

Hence, all I, II, and III can replace the highlighted phrase.

Hence, option b) is correct.

72. **Answer: (C)**

Part A has an error.

Whenever adverbs like 'no sooner', 'hardly', 'scarcely', etc. are used at the beginning of a sentence, they are always directly followed by a helping verb which is followed by the subject.

So, 'I had' should be changed to 'had I'.

The correct sentence would be – "No sooner had I got into my car than a black cat crossed my path followed by another similar cat."

Hence, (c) is the correct answer.

73. **Answer: (D)**

The error is in part C. The subject in the sentence is 'the boy' is singular but the verb that relates the boy in the latter part 'were' is plural. That is the error.

The correct sentence is: The boy who was so naughty at the function was admired by everyone who attended the function.

Hence, the correct answer is option (d).

74. **Answer: (E)**

The error is in part C. In neither nor case, the verb should be based on the noun/pronoun that is nearer. In this case, the noun that is nearer to 'nor' is 'children' which is plural so the corresponding verb should also be plural but here 'is' singular verb is used.

The correct sentence is: Neither the father nor the children are able to withstand the cold weather outside as they have no place to live.

Hence the correct answer is option (e).

75. **Answer: (D)**

'Unless' is equivalent to 'if not'. So, we don't have to use 'not' after unless. It makes the sentence inappropriate. Therefore, we have to omit 'not' after 'unless'. Hence, option (d) is the correct answer.

The correct sentence is: This never costs anything to speak of unless you plant more than enough.

76. **Answer: (D)**

We need a possessive adjective/determiner in place of A to refer to the elephants instead of 'than' to support the sentence, and also, instead of 'their', we need a word that is used for comparison in place of B. That word is 'than'. If we interchange A and B, the sentence will become grammatically correct.

Thus, the answer is option (d).

77. **Answer: (D)**

In its current form, the sentence is not meaningful. If we interchange A and B, the sentence will be meaningful. 'Expanded of the university' is meaningless, and 'home of the University' is correct. The place of B requires a main verb after the helping verb 'has', and the only verb here is 'expanded'. Thus, A and B must be interchanged.

Thus, the answer is option (d).

78. **Answer: (A)**

The sentence requires the interchange of A and B. The place of A requires an adjective which contextually fits to describe the state of peasants, and the most appropriate one is 'aware', as 'remaining' and 'willing' render it meaningless. 'Place in aware' is meaningless, and the place of B requires a noun to locate the place. The only noun contextually fitting is 'society.' 'Less remaining' is also meaningless, and 'less willing' is appropriate. 'Remaining elements of the feudal system' is more contextually appropriate than 'willing elements of the feudal system' as there can't be any such thing. Thus, C and D should also be interchanged.

Thus, the answer is option (a).

79. **Answer: (A)**

In case an adverb describes the 'to be' verb form (is, am, are, was, were), it is placed after the verb. 'Modal verb + be form' is followed by a participle form of verb which is not the given case as go is a base form of verb. Therefore, the correct phrase is 'often he would'.

Hence, option (a) is correct.

80. **Answer: (A)**

In the given sentence, the highlighted phrase is Incorrect because a single verb should be made to serve one subject when the form of the principal verb is appropriate to both the auxiliaries. Other options will make the sentence grammatically Incorrect.

Hence, (a) is the correct answer.

81. **Answer: (B)**

In the given sentence, only the expression "is the most popular celebration" can replace the highlighted part to make the sentence both grammatically correct and contextually meaningful because the helping verb 'is' (present indefinite) is the most suitable verb to be used in this case as the statement resembles a fact. Other options are incorrect because they are grammatically Incorrect. Hence, (b) is the correct answer.

82. **Answer: (B)**

Sentences A and C have no errors, they are contextually and grammatically correct. The correct phrases of adverbs that can be used together are – 'seldom or never', 'seldom if never', 'little or nothing', etc. It is incorrect to use 'little or anything' in sentence B.

Hence, option (b) is correct.

83. **Answer: (D)**

Sentences A and C have no errors, they are contextually and grammatically correct. 'Between' is always followed by 'and'. So, the use of 'to' will be grammatically incorrect.

Hence, option (d) is correct.

84. **Answer: (C)**

Part A has an error. There are two types of comparative forms of adjectives; one that ends with – er and the other with two syllable adjectives. The word 'more' is generally used with longer adjectives; 'delicate' is one such word and its comparative form is 'more delicate' and not 'delicater'. Hence, (c) is the correct answer.

85. **Answer: (A)**

Part A has an error. 'Each' is always followed by a singular verb. So, 'are' should be replaced by 'is' in order to rectify the error. Hence, (a) is the correct answer.

86. **Answer: (B)**

A plural verb is required to connect the subject ('us': plural in nature) with the noun 'actions'. So, options d) and e) are incorrect as 'fails' and 'affects' are singular verbs. Also, option a) is incorrect because 'imagination' is a noun.

Both 'recognise' and 'explain' can fill the first blank. When two or more things/persons are to be related, we use the preposition 'with'. So, there must be a relationship 'with' the environment. To fill the second blank with 'relation', the preposition following it must be 'with' whereas in the given sentence the preposition following the blank is 'on'. So, option c) is incorrect as well.

Only option b) is left.

'Recognise' means to accept that something is true or important.

'Impact' means 'to influence something'. So, filling the two blanks with 'recognise' and 'impact' respectively gives the meaning that most people consider it true that their actions influence the environment. This is meaningful.

Hence, option b) is correct.

87. **Answer: (D)**

The first blank requires an adjective that modifies 'work habits' since the sentence describes the 'habits' (noun) of the workers in the pandemic. 'Achieved' (verb) and 'Entrench' (verb) are not adjectives. So, options a) and e) are incorrect.

The sentence talks about events happening in the present (as indicated by the verb 'has continued'). Thus, the second blank should be filled with a verb that conveys present tense as well. 'Appeared' (past tense/participle) and 'seemingly' (adverb) are eliminated. 'Ingrained' means firmly fixed or established; difficult to change. If we fill the second blank with 'appears', the sentence gives the meaning that since such work habits have become difficult to change, a full – time return to the office seems to be a thing of the past. This is contextually and grammatically correct.

Hence, option d) is correct.

88. **Answer: (A)**

ADC forms a triplet. Sentence A introduces the name of the person as he is popularly known and lists one of his characteristics (that he's a bit of a rogue). Sentence D gives clarification for the characteristic stated in A. This is indicated by the fact that begins with the phrase 'in truth'. D must be followed by C because it lists his positive qualities and is on similar lines as D. This triplet is mentioned in option a). Sentence B acts as an introductory sentence to this triplet. Thus, the correct order is BADC. Hence, a) is the correct answer.

89. **Answer: (E)**

The possessive pronoun 'their' (at the end of part A) needs a noun to immediately follow – the only choice is 'parents' (part C) – AC makes a pair. Also, the pronoun 'you' (at the end of C) can only be followed by, among the rest of the parts, the verb 'saw' (at the start of part E). Thus far, we have ACE.

Part E cannot be the final part of the correct order – it ends with 'it is' – which needs to be completed so as to make a meaningful sentence. Among the remaining parts (B and D), only B is meaningful to immediately follow E – resulting in 'it is higher than' – a perfectly meaningful usage. Thus far, we have ACEB.

Now, part D (which ends with the construct 'reported that the') cannot be the final part in the correct order [need a context ahead to complete the sentence] – in other words, cannot follow B. Thus, D should be the first part in the correct order. We get DACEB as the correct order here.

Answer is option (e).

90. **Answer: (B)**

The sentence is in the past perfect continuous tense. The sentence in this tense is constructed using 'had been + the verb's present participle (root + ing)'. This helps **eliminate options c) and e)** as 'tenacious' (means tending to keep a firm hold of something e.g., 'a tenacious grip') is an adjective and 'register' is not the right form of verb required in the sentence.

'Cadging' means to try to persuade someone to give or lend you something. It is an inappropriate word here. The statement mentions foul odour and taste in water and resulting illnesses. Families would be negative towards these and will try to do something against them. 'Complaining' and 'reporting' seem to be the correct words for the first blank. One would complain or report these problems. So, **eliminate option a).**

'Dragging' means to pull something along forcefully. So, the context cannot be matched with the sentence. So, **eliminate option d)** as well. 'Ranging' means to include a variety of things in addition to those mentioned. It fits right in the second blank.

Hence, option b) is correct.

91. **Answer: (A)**

The second blank will take a noun as suggested by the use of the preposition 'on' as a preposition connects two nouns. 'Dependent', 'important' and 'interdependent' are adjectives, and hence, we can **eliminate options b), c) and e).**

Also, an adjective shall modify the noun 'role' in the sentence. 'Predominance' (the state or condition of being greater in number or amount) is a noun itself, and hence, is not a fit word for the first blank. **Eliminate option d).**

'Reliance' means to depend on something. From the statement, we can say that the agricultural output depends on chemical fertilisers. That means there is reliance on chemical fertilisers. Hence, 'reliance' is the correct word for the second blank.

Hence, option a) is correct.

92. **Answer: (C)**

'Decreases in population growth' is used as the **noun phrase** in the sentence. So, an adjective shall modify it. **Eliminate options d) and e)** as 'swiftly' and 'rapidly' are adverbs.

'Kinaesthetic' relates to a person's awareness of the position and movement of the parts of the body by means of sensory organs (proprioceptors) in the muscles and joints. It has no context with the population growth. Hence, **eliminate option a).** (Assured means confident or protected against discontinuance or change)

For the first blank, we shall follow the rule of parallelism. So, the first blank shall be filled with the past participle as 'instituted' and 'increased' are used before and after the conjunction 'and', respectively.. So, **eliminate option b).** (Abhorrent means morally very bad)

'Regenerated' is a past participle. It fits in the first blank contextually as well. 'Rapid' means happening very quickly. That fits the second blank correctly. The sentence means that having taken all the mentioned steps, it should be possible to see rapid decreases in population growth.

Hence, option c) is correct.

93. **Answer: (D)**

As given at the beginning of the first paragraph, "The definition of biodiversity loss is described as the loss of life on Earth at various levels", biodiversity loss is the loss of life on Earth at various levels.

Hence, option (d) is correct.

94. **Answer: (B)**

It is mentioned in the last paragraph of the passage "Decades of persistent land clearing means that we have lost significant amounts of natural habitats."

Therefore, we have lost significant amounts of natural habitats due to continuous land clearing.

Hence, option (b) is correct.

95. **Answer: (B)**

As given at the beginning of the fourth paragraph "The single biggest contributor of global biodiversity loss is undoubtedly land and forest clearing to make way for urban and agricultural development", the biggest reason for biodiversity loss is the destruction of land and forest.

Hence, option (b) is correct.

96. **Answer: (C)**

The word 'rampant' is mentioned in the third paragraph of the passage "the current rapid rate of loss is a direct result of rampant human activity since the Industrial Revolution." Here, 'rampant' means flourishing or spreading unchecked.

Hence, option (c) is correct.

97. **Answer: (A)**

It is mentioned in the second paragraph of the passage that "The rate of loss has rapidly increased in recent years, to the point where many scientists believe that the world is currently experiencing a sixth mass extinction." The loss referred to in the above case is biodiversity loss which has increased in recent years.

Hence, option (a) is correct.

98. **Answer: (E)**

The word '**extinction**' means the fact or process of a species, family, or other groups of animals or plants becoming extinct. The word 'extant' means still in existence or surviving. Option C is correct as 'extant' is the right antonym of the word '**extinction**'.

Hence, option (e) is correct.

99. **Answer: (C)**

As given in the third paragraph "Biodiversity loss not only results in species extinction, but it also affects humans by depriving humanity of accessing services that natural ecosystems provide, whether it be the wealth of oxygen that we breathe", biodiversity loss has deprived human beings of accessing services provided by natural ecosystems.

Hence, option (c) is correct.

100. **Answer: (D)**

As given in the last paragraph the word, 'persistent' means continuing firmly or obstinately in a course of action despite difficulty or opposition. So, the right word will be 'incessant' or 'continuous'.

Hence, option (d) is correct.

'Irresolute' – indecisive.