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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

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

(B) One  
(D) Two

**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 2<sup>nd</sup>, 4<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> 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?

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.  $y^2 + 27y - 152 = 0$

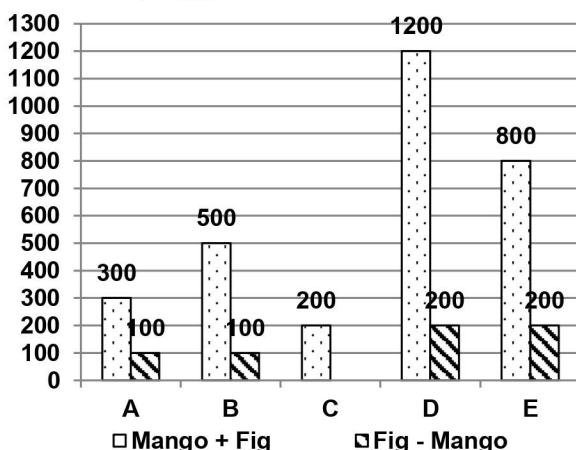
- (A)  $x < y$  (B)  $x > y$   
(C)  $x \leq y$  (D)  $x \geq y$   
(E)  $x = y$  or relationship cannot be established

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.

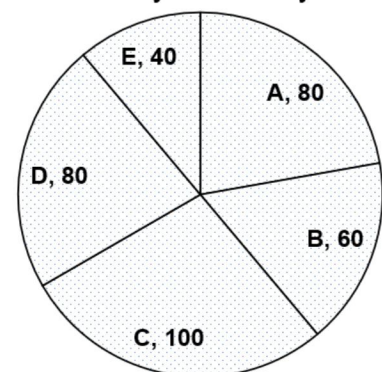


Table given below shows the number of vanilla cakes sold as per cent of that of chocolate cakes sold by each bakery and also shows the ratio of number of vanilla cakes sold to that of strawberry cakes sold by each bakery.

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 cm<sup>2</sup> (B) 729 cm<sup>2</sup>  
 (C) 324 cm<sup>2</sup> (D) 1296 cm<sup>2</sup>  
 (E) 2025 cm<sup>2</sup>
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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