Vedic Mathematics

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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

1. In the question, 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: No fruit is a vegetable.
   All potatoes are vegetables.
   Some fruits are apples.
   Conclusions: I. No fruit is a potato.
   II. At least some apples are fruits.
   (A) Both Conclusion I and Conclusion II follow
   (B) Either Conclusion I or Conclusion II follows
   (C) Only Conclusion II follows
   (D) Neither Conclusion I nor Conclusion II follows
   (E) Only Conclusion I follows

2. In the following question, three statements are given and two conclusions are given below these statements. Choose the option which shows the conclusions which logically follow from the given statements, disregarding commonly known facts.
   Statements: All dots are lines.
   Only a few angles are dashes.
   Some dots are angles.
   Conclusions: I. All dashes can be lines.
   II. Some lines are angles.
   (A) Only I follows
   (B) Only II follows
   (C) Either I or II follows
   (D) Neither I nor II follows
   (E) Both I and II follow

3. In the following question, three statements are given and two conclusions are given below these statements. Choose the option which shows the conclusions which logically follow from the given statements, disregarding commonly known facts.
   Statements: Each ring is a cap.
   Some belts are rings.
   Not a single ring is a locket.
   Conclusions: I. Mostly belts are caps.
   II. Some caps are not lockets.
   (A) Only I follows
   (B) Only II follows
   (C) Both I and II follow
   (D) Neither I nor II follows
   (E) Either I or II follows

Directions [04 – 08]: Amazon has delivered different boxes having different materials such as Books, Basket, Lipstick, Shoes, Clothes, Toys and Grocery on different days of a week starting from Monday, but not necessarily in the same order. Each of them is packed in different coloured papers viz. Green, Blue, Golden and Silver. Not more than two boxes are packed in the same coloured paper.
Only one box is delivered between the box of Toys and Clothes which is packed in Green paper. The box which has lipstick in it is packed in the same coloured paper of the box which has Grocery. Books are delivered on Sunday and packed in golden paper. Three boxes arrived between Books and the box of Clothes. Shoes are packed in silver paper which has arrived immediately before the box of Lipstick. The box of Basket is not packed in Silver paper, but arrived on Tuesday. Neither the box arrived on Friday nor the box which has

Lipstick in it is packed in green paper. The number of boxes arrived before Clothes is equal to the number of boxes arrived after Shoes. The number of boxes arrived before and after the boxes which are packed in golden paper is equal.

4. Four of the following five options are alike in a certain way and thus form a group. Which of the following option does not belong to the group?
   (A) Toys and Books　　(B) Clothes and Basket
   (C) Grocery and Lipstick　(D) Shoes and Toys
   (E) None of these

5. Which of the following material arrived on Thursday?
   (A) Toys　　　　　　(B) Basket
   (C) Lipstick　　　　(D) Grocery
   (E) Shoes

6. The materials which are packed in golden paper arrived immediately before – – – – – and immediately after – – – – – .
   (A) Clothes, Shoes　　(B) Basket, Lipstick
   (C) Grocery, Basket　　(D) Toys, Books
   (E) Shoes, Lipstick

7. The number of materials arrived before Friday is one more than the number of materials arrived after – – – – – – .
   (A) Shoes　　　　　(B) Toys
   (C) Grocery　　　　(D) Basket
   (E) Clothes

8. The material which is packed in silver paper arrived on-----.
   (A) Tuesday　　　　(B) Thursday
   (C) Saturday　　　　(D) Friday
   (E) Monday

Directions [09 – 13]: A certain number of persons are sitting in a linear row facing north. Information is known about only a few of those individuals. No three persons with known information are sitting together. Not more than 24 persons are sitting in a row. There are eight persons sitting between G and H where G sits to the left of H. Only one person sits between F and G. Two persons are sitting between J and D and also two persons are sitting between D and E, where J is sitting to the left of E. Six persons are sitting between E and I and I is not sitting at the end. There are five persons sitting between F and K where K sits to the left of F. There are 13 persons sitting between F and C. Neither D nor E sits adjacent to H. There are 15 people sitting between C and A and A is sitting to the immediate right of B.

9. How many people were seated between D and A?
   (A) 2　　　　　　　(B) 4
   (C) 14　　　　　　　(D) 12
   (E) 7

10. How many people were seated to the right of E?
    (A) 4　　　　　　　(B) 8
    (C) 3　　　　　　　(D) 11
    (E) None of these

11. How many people were seated in the row?
    (A) 18　　　　　　　(B) 24
    (C) 21　　　　　　　(D) 19
    (E) None of these

12. Who among the following was seated to the left of J?
(A) H   (B) C
(C) D   (D) G
(E) I

13. Number of people seated between D and E is equal to the number of people seated between _____ ?
(A) K and B   (B) A and F
(C) C and I   (D) G and J
(E) J and E

14. In these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions. Choose the correct answer.
Statements: O<P≥S>U; S<B; C≤U
Conclusions: I. O<B
II. C<B
(A) If only conclusion I is true.
(B) If only conclusion II is true.
(C) If either conclusion I or conclusion II is true.
(D) If neither conclusion I nor conclusion II is true.
(E) If both conclusions I and II are true.

Directions [15 – 16]: There are eight houses i.e. P, Q, R, S, T, U, V and W are situated at different direction and distance with respect to each other. P is 6m to the east of Q. U is 3m to the west of T. Q is 4m to the north of R. S is 4m to the north of T. U is 4m to the north of V. W is 6m to the east of V. R is 3m to the west of S.

15. What is the shortest distance between R and W?
(A) 10m   (B) 5m
(C) 3m   (D) 4m
(E) 8m

16. In which direction is U with respect to S and what is the shortest distance between them?
(A) South – west, 15m   (B) South – east, 10m
(C) South – west, 5m   (D) South – east, 5m
(E) South, 10m

17. There are six ladders of different heights such that no two ladders are of the same height. Only one ladder is shorter than Ladder B. Ladder T is longer than Ladder S but shorter than Ladder G. Ladder G is immediately shorter than Ladder Y. Ladder S is taller than Ladder Q. The second tallest ladder is 52 cm and the third shortest ladder is 24cm. What is the possible height of Ladder T?
(A) 20cm   (B) 40cm
(C) 53cm   (D) 15cm
(E) 60cm

18. 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: S > H = K; W ≤ B < R = K; G < B > D
Conclusions: I. D < S   **II.** H ≥ W
(A) Only II follow   (B) Both I and II follow
(C) Only I follow   (D) Neither I nor II follow
(E) Either I or II follow

19. In the question below, a statement is followed by two conclusions based on the statement. Study the conclusions and select the correct option as the answer.
Statement: Y ≤ A > L < D > O; A > J < G < H
Conclusions: I. G < D   **II.** A > O

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

Directions [20 – 24]: Nine boxes B1 to B9 are kept in a stack kept one above the other in a stack but not necessarily in the same order. The bottommost position is number 1 above that number 2 and so on.
Two boxes are kept between box B5 and box B3. Three boxes are kept between box B9 and box B4, which is not kept at the topmost position. The number of boxes kept above box B3 is same as the number of boxes kept below box B8. Four boxes are kept between box B5 and box B1, which is kept above box B5. Only one box is kept between box B8 and box B2, which is kept immediately above box B6. Neither box B5 nor box B3 is kept at the bottommost position.

20. Which of the following box is kept at the topmost position?
(A) Box B9   (B) Box B7
(C) Box B1   (D) Box B6
(E) Box B3

21. How many boxes are kept above box B7?
(A) 1   (B) 2
(C) 3   (D) More than 3
(E) None

22. Which of the following statement is true?
i) Box B6 is kept at the bottommost position.
ii) Three boxes are kept between box B8 and box B7.
iii) Box B5 is kept immediately above box B2.
(A) Only i and ii   (B) Only ii and iii
(C) Only i and iii   (D) All are true
(E) None is true

23. If box B9 is related to box B1 in the same way box B2 is related to _____.
(A) Box B7   (B) Box B4
(C) Box B3   (D) Box B8
(E) Box B6

24. Box B4 is kept immediately _____ box and immediately _____ box.
(A) Above, B6, Below, B9
(B) Below, B3, Above B1
(C) Above, B5, Below B6
(D) Below B3, Above B8
(E) Above B2, Below B7

Directions [25 – 29]: Study the given information carefully and answer the questions below it:

Eight persons U, Y, T, I, P, A, H and V are sitting around a circular table for a meeting but not necessarily in the same order. They also likes different types of herbal plants namely Tulsi, Aloe Vera, Gotu Kola, Calendula, Basil, Thyme, Rosemary and Lavender but not necessarily in the same order. All are facing outwards.
T likes Aloe Vera and sits 3rd to the right of the person who likes Basil. I sits 4th to the left of Y. One person sits between the person who likes Basil and V. The person who likes Rosemerry sits adjacent to P. V is not an immediate neighbour of the person who likes Thyme. Three persons sit between T and the person who likes Tulsi. A likes

neither Rosemerry nor Canlendula. Y sits 2nd to the left of V. I does not like Basil. P sits 2nd to the right of U, who likes Lavender. The person who likes Calendula sits immediately left of U.

25. Y likes _____ plant.
    (A) Gotu Kola   (B) Basil
    (C) Tulsi   (D) Calendula
    (E) Thyme

26. Who sits 4th to the left of the person who likes Thyme?
    (A) H   (B) P
    (C) U   (D) I
    (E) T

27. How many persons sit between the person who likes Aloe Vera and the person who likes Tulsi?
    (A) None   (B) One
    (C) Two   (D) Three
    (E) Four

28. What is the position of A with respect to the person who likes Lavender?
    (A) Third to the left (B) Fourth to the right
    (C) Second to the left (D) Fifth to the right
    (E) Immediate left

29. The person who sits opposite to the person who likes Lavender likes which plant?
    (A) Tulsi   (B) Basil
    (C) Gotu Kola   (D) Rosemerry
    (E) Aloe Vera

Directions [30 – 34]: Six people A, B, C, D, E and F, were born in different consecutive years starting from the year 1983. Everyone likes a different type of shirt viz. Henley, Hoody, Jacket, Jersey, Polo and Tank. Only two people were born between B and C, who was born immediately before the one who likes Hoody. F was born immediately after the one who likes Jacket. Only one person was between the ones who like Hoody and Henley. The one who likes Polo was born in an even – numbered year. A was born in a leap year and was born immediately after E. Three people were born between A and the one who likes Henley. The one who likes Jersey is not the oldest of all.

30. Who among the following is related to C in the same way F is related to D?
    (A) A   (B) E
    (C) B   (D) D
    (E) F

31. Who among the following was born in the year 1985?
    (A) The one who likes Henley
    (B) The one who likes Hoody
    (C) E
    (D) The one who likes Jacket
    (E) A

32. Who likes Henley?
    (A) C   (B) B
    (C) F   (D) D
    (E) A

33. Who among the following was born before D?
    I. B   II. A
    III. C
    (A) Only II and III   (B) Only I
    (C) Only I and III   (D) Only III

(E) Only II

34. Select the correct pair.
    (A) E – Jacket   (B) B – Hoody
    (C) A – Polo   (D) C – Tank
    (E) None of these

35. If a meaningful word can be formed using the 1st, 3rd, 4th and 7th letters from the left end of the word "HISTORIC" from the left end only once, and then what is the first letter from the right end of the word formed? If no such word can be formed, then mark W as your answer while if more than one such word can be formed, then mark U as your answer.
    (A) W   (B) H
    (C) U   (D) S
    (E) I

Quantitative Aptitude

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

The table given below shows the number of movies released in five different Indian languages in the year 2021 and the percentage of hit movies in these five different languages.

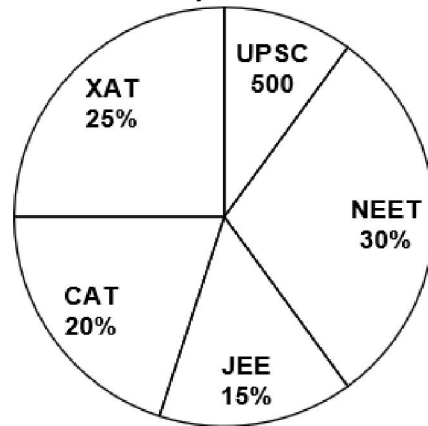| Language	Number of movies	Percentage of hit movies
Hindi	320	35%
Bengali	180	65%
Telugu	240	55%
Tamil	250	52%
Kannada	150	58%

Note: Any movie released is either a hit or a flop

36. Find the average number of flop movies released in Telugu, Tamil and Kannada language together.
    (A) 103   (B) 112
    (C) 97   (D) 87
    (E) 117

37. Find the difference between the total number of hit movies and flop movies released in all the five languages together in the year 2021.
    (A) 16   (B) 34
    (C) 20   (D) 58
    (E) None of these

38. Find the ratio of the number of hit movies released in Hindi and Tamil language together to the total number of movies released in Bengali and Kannada language together in 2021.
    (A) 7:9   (B) 3:4
    (C) 7:11   (D) 11:15
    (E) 13:15

39. If the number of Hindi and Telugu movies released in 2021 has increased by 25% and 20% respectively as compared to the year 2020, find the difference between the number of Hindi movies and Telugu movies released in the year 2020.
    (A) 80   (B) 64
    (C) 48   (D) 50
    (E) None of these

40. Total number of flop movies released in Hindi and Tamil language together is what percent of the total number of movies released in Hindi and Bengali language together?
    (A) 57.5%   (B) 65.6%
    (C) 62.5%   (D) 73%
    (E) 58%

41. If the number of Kannada movies released in 2022 is 13(1/3)% more as compared to 2021, and the number of Bengali movies released in 2022 is 25% more as compared to 2021, find the total number of Kannada and Bengali movies released in 2022 together.
(A) 430   (B) 425
(C) 395   (D) 390
(E) None of these

42. A certain sum of Rs.1680 is lent for a year at a certain rate of simple interest. After 8 months, another sum of Rs.420 is lent at a certain simple interest rate which is twice the former rate. Total interest earned at the end of the year is Rs.98 from both the amounts. What was the original rate of interest?
(A) 8%   (B) 5%
(C) 7.5%   (D) 10%
(E) None of these

43. The ratio of age of Rahul and Ashish is 4:7 and the age of Sagar is 10 years less than Ashish's age. If the age of Rahul is 24 years then find the average age of Ashish and Sagar?
(A) 37 years   (B) 35 years
(C) 36 years   (D) 40 years
(E) 39 years

44. 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. $x^2 + 19x - 66 = 0$ II. $y^2 - 13y + 42 = 0$
(A) x < y   (B) x > y
(C) x ≤ y   (D) x ≥ y
(E) x = y or relationship cannot be established

45. Two equations (I) and (II) are given below. You have to solve both the equations and give answer.
I. $x^2 + 37x + 300 = 0$ II. $y^2 + 3y - 88 = 0$
(A) x = y or relationship cannot be established
(B) x ≥ y   (C) y > x
(D) y ≥ x   (E) x > y

46. The following question is followed by two statements. Read both the statements carefully and find that which of the following statement(s) is/are sufficient to answer the question.
The marked price of two mobiles A and B is Rs. P and Q respectively. On which of the mobile phone, the shopkeeper gives larger amount of discount?
Statement I: For the mobile A, the shopkeeper gives 28% discount on the marked price.
Statement II: For the mobile B, the shopkeeper gives 42% discount on the marked price.
(A) If the data in both statements I and II together are necessary to answer the question.
(B) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
(C) If the data in statement II alone are sufficient to answer the question, while the data in statement I are not 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 statement I alone are sufficient to answer the question, while the data in statement II are not sufficient to answer the question.

Directions [47 – 51]: Read the information carefully and answer the following questions.

The pie chart given below shows the percentage distribution of vacancy released in different examinations in year 2022.

47. If ratio of vacancies for male candidates to female candidates in UPSC exam in 2022 is 3:2. 50% of the vacancies for male candidates are reserved. Then find difference between reserved vacancies for male candidates and total vacancies for female candidates in UPSC exam.
(A) 100   (B) 50
(C) 40   (D) 60
(E) 75

48. If 40% of the total NEET vacancies in 2022 are from government college, then find total non – government college NEET vacancies are what percent of the total CAT exam vacancies.
(A) 100%   (B) 90%
(C) 110%   (D) 120%
(E) 130%

49. If in 2023 vacancies released for CAT exam are 1/4th more than the previous year CAT exam vacancies, then find CAT exam vacancies released in 2023 are how much more or less than the XAT exam vacancies in 2022.
(A) 20   (B) 15
(C) 0   (D) 10
(E) 5

50. If number of vacancies in XAT exam in 2023 are increased by 20% from the previous year and ratio of vacancies in XAT exam in 2023 to vacancies in XAT exam in 2024 is 1:2, then find the sum of vacancies in XAT exam in 2024 and vacancies in UPSC exam in 2022.
(A) 5500   (B) 5000
(C) 4500   (D) 3500
(E) 4000

51. If only 60% of the vacancies get filled in UPSC exam in 2022, then find average of vacancies which are not filled in UPSC exam in 2022 and total vacancies in NEET exam in 2022.
(A) 700   (B) 800
(C) 650   (D) 750
(E) 850

52. In the following question, a number series is given in which one term is wrong. Find out the wrong term.
299, 178, 97, 44, 23, 14 ,13
(A) 23   (B) 78
(C) 44   (D) 14
(E) 97

53. Find the wrong term in the given series.
    10.5, 12.5, 18, 38, 198, 2758
    (A) 18   **(B)** 198
    (C) 12.5   **(D)** 2758
    (E) 38

54. In each of the following questions, a number series is given in which one term is wrong. Find out the wrong term.
    938, 595, 379, 264, 190, 163, 155
    (A) 190   **(B)** 155
    (C) 595   **(D)** 264
    (E) 379

55. Which of the following will be next in the given series?
    420, 428, 438, 440, 450, ?
    (A) 480   **(B)** 452
    (C) 450   **(D)** 476
    (E) 466

56. Select the option which can replace the question mark (?) in the given series.
    3, 3, 9, 15, 33, 63, ?
    (A) 102   **(B)** 147
    (C) 125   **(D)** 129
    (E) 136

57. In a mixture of petrol and water, the proportion of petrol by volume was 75%. If, in a 160 ml of mixture, 40 ml of pure petrol is added, then find the percentage of petrol in the new mixture.
    (A) 76%   **(B)** 82%
    (C) 78%   **(D)** 80%
    (E) 84%

58. If the speed of boat is 150% more than the speed of stream and distance travelled in upstream is 20% less than the distance travelled in downstream, then find the ratio of time taken by boat in going upstream to that in downstream?
    (A) 4:1   **(B)** 1:4
    (C) 28:15   **(D)** 15:28
    (E) 15:4

59. Total cost of levelling a circular track is Rs.2464. The outer circumference of a circular track is 132 meter and ratio of outer radius to inner radius is 3:1. Find the rate of levelling the circular track per sq. meter. (In Rs.)
    (A) 4   **(B)** 2
    (C) 3   **(D)** 6
    (E) 5

60. A shopkeeper sold a shirt and a table for Rs. 3168 and suffers loss of 12% on shirt and profit of 10% on table. If cost price of shirt and table is same than, find the cost price of the Shirt.
    (A) 1200 Rs.   **(B)** 1600 Rs.
    (C) 1500 Rs.   **(D)** 1700 Rs.
    (E) 1480 Rs.

61. 12 men can complete a piece of work in 18 days and 10 women can complete the same work in 15 days. If all the 12 men and 10 women work together, then in how many days will the work get completed?
    (A) 7(2/11)   **(B)** 2(5/11)
    (C) 8(2/11)   **(D)** 5(3/11)
    (E) 3(2/11)

62. What approximate value should come in place of (?) in the expression given below?

$\sqrt{257} + \sqrt[3]{1330} + \sqrt{728} + \sqrt{?} = 72.04$
    (A) 289   **(B)** 225
    (C) 576   **(D)** 441
    (E) 324

63. What approximate value will come in place of question mark (?) in the following question?
    $45.99 + 92.14 - 18.07 = 21.02 + 10.93 \times ?$
    (A) 9   **(B)** 2
    (C) 3   **(D)** 5
    (E) 7

64. There are 60 balls in a bag and each ball bears a number from 1 to 60 such that no two balls have the same number. Find the probability of drawing a ball which bears a number which is a multiple of either 3 or 4.
    (A) 7/12   **(B)** 2/3
    (C) 1/2   **(D)** 13/20
    (E) 31/60

65. Raman's salary is 60% more than Ram's salary. Ram got a salary hike of 12.5% and Raman's salary was increased by 35%. Raman's hiked salary is what percent more than Ram's hiked salary?
    (A) 84%   **(B)** 90%
    (C) 60%   **(D)** 75%
    (E) 92%

Directions [66 – 70]: Read the following data carefully and answer the question accordingly.

The survey has taken regarding the preferences of people between Trains, Buses, and Airplanes while travelling to metro cities. The total number of people who prefer to travel by Trains are 511, while the total number of people who travel by only trains are 150. The total number of people who prefer to travel by all three ways are (2/3) more than the total number of people who travel by only trains. The respective ratio of the total number of people who travel by only trains and the total number of people who travel by trains and Airplanes only is 10:3. Total 292 people prefer to travel by Buses and Airplanes. The total number of people who prefer to travel by Buses are 478. 77 people prefer to travel by Airplanes only.

66. Find the average of people who prefer exactly two ways of travelling.
    (A) 61   **(B)** 57
    (C) 51   **(D)** 67
    (E) 55

67. Find the total number of people whose survey has taken for preferences between Trains, Airplanes and Buses.
    (A) 600   **(B)** 750
    (C) 800   **(D)** 850
    (E) None of this

68. Total number of people prefer to travel by Buses only are what percentage of number people who prefer to travel by all three ways?
    (A) 38 %   **(B)** 45 %
    (C) 49 %   **(D)** 48 %
    (E) None of this

69. Find the ratio of the sum of total number of people who prefer to travel by trains and Buses only and number of people who prefer to travel by Buses and Airplanes only to the sum of number of people

who prefer to travel by Trains only and total number of people who prefer to travel by Buses only.
(A) 3:7   **(B)** 5:2
(C) 2:5   **(D)** 4:7
(E) 2:7

70. What is the sum of the total number of people who prefer to travel by at least two ways?
(A) 403   **(B)** 410
(C) 503   **(D)** 423
(E) None of this

English Language

71. 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.
Itwas **placed (A)** after **breakfast (B)** when shehad **directly (C)** herself in the **chair (D)** at the parlour window.
(A) A – C   **(B)** A – C and B – D
(C) B – D   **(D)** A – B
(E) No change required

72. 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.
A solar cell is **any (A)** device that **process (B)** converts light energy **into (C)** electrical energy through the **directly (D)** of photovoltaics.
(A) A – B and C – D   **(B)** A – C and B – D
(C) B – D   **(D)** A – B
(E) No change required

73. 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.
One time walking past a bus stop, she saw an elderly man **who reminds her of her father**.
(A) relatable to her fatherly image
(B) remind of her elder brother
(C) whom was exactly resembling her father
(D) who resembled her father
(E) No correction required

74. 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.
Well – wishers should meet the original targets wherever possible, it said, and it expected most of them would do so.
(A) participants must adhere to their trac record
(B) winners takes it all
(C) employees must complete their assigned goals
(D) all the mentioned tasks must be completed
(E) No correction required

75. 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.
We want infants to **exploration the world** and take on adventures, and admittedly, we are fascinated by their joy when they discover new things.
(A) leave and never returns home
(B) explore the things around them
(C) inspecting the outside world
(D) not restrict themselves from reading
(E) No correction required

76. In the question given below, one part of the sentence may or may not have an error. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select 'No error'. Ignore punctuation errors, if any.
Since childhood emotional (A) / neglect are difficult to (B) / see or remember, many couples (C) / have no idea it's affecting their marriage. (D)
(A) D   **(B)** A
(C) B   **(D)** C
(E) No error

77. In the given question, a word has been given and there are three ways in which the word has been used, in similar or different forms. You need to see which of the sentences have correctly used the highlighted word, and mark that as your answer.
Evaluation
I. The film was shot on **evaluation** in France.
II. The **evaluation** of conduct involves some amount of generalization.
III. I have to find a convenient **evaluation** for the shelves.
(A) Only I   **(B)** Only II
(C) Only III   **(D)** Both I and III
(E) Both II and III

78. In the following question, four statements are given which may or may not contain an error. Choose the one that is grammatically and meaningfully correct. If all the sentences are correct, mark 'All are correct' as your answer.
(A) She twisted hers ankle and was unable to play soccer.
(B) The children were sad as their mother did not let they play in the garden.
(C) Her sister is the most helpful person you could ever hope to meet.
(D) There's a small shop on the corner who is open 24 hours a day.
(E) All are correct

79. In the following question, four statements are given which may or may not contain an error. Choose the one that is grammatically and meaningfully correct. If all the sentences are correct, mark 'All are correct' as your answer.
(A) She went to bed earlier than usual, exhausted from the day's hard work.
(B) They behaved in a childish manner when they shouldn't have.
(C) During the early stages of her career, her performance was inconsistent.
(D) Her performance improved because of the teacher's motivational speech.
(E) All are correct

80. In the following question, four statements are given which may or may not contain an error. Choose the one that is grammatically and meaningfully correct. If all the sentences are correct, mark 'All are correct' as your answer.
(A) I cannot believe you was not as taken aback by it as I was.
(B) I will gathered the information you require by the next week.
(C) Bill gave Martha a cup of tea laced with poison.
(D) Is there something specific you would like to knew?
(E) All are correct

81. In the following question, four statements are given which may or may not contain an error. Decide which of these sentences is grammatically incorrect and not meaningful and mark the answer accordingly. If none of the sentences contains an error, mark 'All are correct' as your answer.
(A) A friend of mine came to see me at work and shared his problem.
(B) It was his suggestion to hold the meeting as soon as possible.
(C) John generous agreed to lend me the money I needed.
(D) I don't mean to bother you, but are you having problems at home?
(E) All are correct

82. In the following question, four statements are given which may or may not contain an error. Decide which of these sentences is grammatically incorrect and not meaningful and mark the answer accordingly. If none of the sentences contains an error, mark 'All are correct' as your answer.
(A) The contract signed by the two companies are bound to increase their growth.
(B) I thought we had found the ideal hiding spot, but the police found us.
(C) I went to meet Martha because it had been a while since I had seen her.
(D) I still have the hat I wore when I was thirteen years old.
(E) All are correct

83. In the question given below, a sentence is given with one blank, followed by five options, each having a word that may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.
When we ultimately get a good break, we can _____ it to our past good deed and feel, once again, that the world is balanced; that good actions have been rewarded.
(A) Ascribing (B) Associated
(C) Tracing (D) Attribute
(E) Referred

84. In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that would correctly fit in the given blank.
An atheist is the one who doesn't _____ in god.
(A) believing (B) believe
(C) believes (D) believed
(E) considered

85. In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that would correctly fit in the given blank.
The term teletype originated as a trademarked term for a _____ of teleprinters created by the Teletype Corporation in 1928.
(A) brand (B) labels
(C) identify (D) lines
(E) relate

86. In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that would correctly fit in the given blank.
The massive tsunami wave slammed into them with force and speed they hadn't _____.
(A) Resumed (B) Expected
(C) Accept (D) Accepting
(E) Bring

Directions [87 – 91]: In the question below, a set of sentences is given, which when properly sequenced, form a coherent paragraph. Arrange the sentences in the correct sequence and answer the questions that follow.

A. These events are linked to the climate issues in oceans like coral bleaching, seagrass destruction, and loss of kelp forests, affecting the fisheries sector adversely.
B. Heatwaves on the land are well known.
C. An underwater survey showed that 85% of corals in the Gulf of Mannar got bleached after the marine heatwave last year.
D. Emerging studies have reported their occurrence and impacts in the global oceans but are little understood in the tropical Indian Ocean.
E. Marine heatwaves are periods of extremely high temperatures in the ocean.
F. But marine heatwaves – or the ones that form on oceans – have been on the rise in the tropical waters around India, says a study.

87. Which of the following will be the THIRD sentence after rearrangement?
(A) D (B) E
(C) B (D) C
(E) A

88. Which of the following will be the SIXTH sentence after rearrangement?
(A) C (B) B
(C) F (D) E
(E) D

89. Which of the following will be the FIRST sentence after rearrangement?
(A) B (B) A
(C) E (D) C
(E) D

90. Which of the following will be the FIFTH sentence after rearrangement?
(A) F (B) B
(C) E (D) C
(E) A

91. Which of the following will be the SECOND sentence after rearrangement?
(A) D (B) A
(C) F (D) B
(E) C

Directions [92 – 100]: Read the following passage carefully and answer the questions that follow.

Invasive mosquitofish are often fearless. Free from the predators of their native range, these mosquitofish run rampant, throwing naive ecosystems from Europe to Australia out of order. To keep the problematic fish in check, scientists are trying to strike fear back into the hearts of these swimmers with a high – tech tool: robots. In the laboratory, a robotic fish is designed to mimic one of mosquito fish's natural predators. While robofish won't be deployed in the wild anytime soon, the research highlights that there are "more creative ways of preventing unwanted behaviour from a species" than simply killing them.

Native to parts of the western and south – eastern United States, mosquitofish were let loose in freshwater ecosystems around the globe last century in a **foolhardy** attempt to control malaria. But instead of eating malaria – transmitting mosquito larvae, the mosquitofish mostly gobble up the eggs and gnaw at the tails of native fish and amphibians, making them one of the world's most destructive invasive species, according to IUCN. Efforts to combat mosquito fish, and many other introduced, invasive species, usually _____ on mass killing with traps, poison, or other blunt methods. But, for most of the invasive species, this doesn't work and can often harm native species too.

The problem isn't necessarily the presence of mosquitofish in these ecosystems, but their wanton behaviour enabled by a lack of predators. While predation prevents prey numbers from ballooning, merely the fear of predators can influence prey behaviour in ways that ripple throughout an ecosystem. The researchers wanted to see if a robotic fish crafted to mimic one of mosquito fish's natural nemeses, the largemouth bass, could be just as scary. In the lab experiment, researchers set up 12 tanks that each housed six mosquito fish with six native Australian tadpoles that are commonly harassed by mosquitofish. After a week of acclimatization, the team transferred each group to an experimental tank for one hour twice a week for five weeks. There, half of the groups faced a robotic predator designed to recognize and lunge at mosquito fish when they got too close to the tadpoles.

Fear of the robot altered the behaviour, shape, and fertility of the mosquitofish, both during exposure and weeks later. Mosquito fish facing the robot tended to cluster together and not explore the tank, while the tadpoles, free of harassment, ventured farther out. Even in the safety of their home aquariums, fish exposed to the robots were less active and more anxious – exhibited by seconds – longer freeze responses – than mosquito fish that weren't exposed. **The long – term impact that such robotic predators would have on wild mosquito fish and their neighbours remain unclear.** But the main contribution of this study is showing that fear has significant consequences that may reduce the survival and reproduction of invasive species.

92. Which of the following can be inferred from the passage?
(A) The mosquitofish is not an invincible species and has weaknesses that we can take advantage of to deal with this invasive species.

(B) The researchers will release these robofishes in the wild and study more about the behaviour of mosquitofish.
(C) Mosquitofish played pivotal role in tackling malaria around the globe last century.
(D) The experiment to study behaviour of mosquitofish in presence of robofish behaving as its predator was a failure.
(E) Female mosquitofish live considerably longer than males.

93. Which part of the highlighted sentence in the given passage contains the grammatical error?
(A) The long – term impact that
(B) such robotic predators would
(C) have on wild mosquito fish
(D) and their neighbours remain unclear
(E) No error

94. Which of the following statements is true as per the passage?
(A) Mosquitofish though intended to help tackle dengue, turned out to be the most destructive invasive species in the world.
(B) Mosquitofish are native to Western and South – Eastern United States, Europe, and Australia.
(C) The largemouth bass is a natural rival of mosquitofish.
(D) During the experiment, half of the group which was put in with the robotic predator showed no alteration in their natural behaviour.
(E) The presence of mosquitofish in the ecosystem is a major problem for other species, and the only way to deal with them is to kill them, except in their natural habitats.

95. Which of the following can replace the word 'foolhardy' in the passage, without changing the meaning of the sentence?
(A) Prudent   **(B)** Quixotic
(C) Reckless   **(D)** Naïve
(E) Extravagant

96. What do you think is the aim of the experiment discussed in the passage?
(A) Find out the ways to deal with malaria.
(B) Compare the behaviour of two rival fish species: mosquitofish and the largemouth bass.
(C) Study various ways to introduce the mosquitofish to various freshwater ecosystems in the world.
(D) To show that fear can render these exotic invasive species less harmful.
(E) To study predator vs prey behaviour.

97. As per the context that the second paragraph provides, choose from the following options, a phrase that can fill the blank in the statement given below.
'Efforts to combat mosquito fish, and many other introduced, invasive species, usually _____ on mass killing with traps, poison or other blunt methods.'
(A) Relay   **(B)** Rely
(C) Replay   **(D)** Reflex
(E) Reiterate

98. Which of the following questions can be answered from the passage given above?
I. Which species is considered the natural predator of the mosquitofish?
II. What does mosquitofish prey on?

III. How does the presence of its natural predator affect its behaviour?

(A) Both I and III　　　(B) Both II and III
(C) Both I and II　　　(D) Only I
(E) All I, II, and III

99. In context with the passage, determine who is a 'predator' and 'prey' respectively in the statement given below.
'While predation prevents prey numbers from ballooning, merely the fear of predators can influence prey behaviour in ways that ripple throughout an ecosystem.'

(A) Mosquitofish, mosquitos
(B) The largemouth bass, mosquitofish
(C) Mosquitofish. The largemouth ba
(D) Other native fish, mosquito fish
(E) Largemouth bass, other native fish

100. Which of the following is the most suitable title for the passage?
(A) Can a terrifying robot thwart invasive mosquito fish?
(B) Predator – prey interaction
(C) Invasive species as ecological thr
(D) How invasive species disrupt habitats
(E) Mosquitofish – invaders in disguise

Space for rough work