REASONING

Directions (1-2) : Study the following information carefully and answer the questions given below:

Point A is 8 m to the North of point C. Point B is 10 m to the West of point A. Point D is 2.5 m to the South of point B. Point E is 10 m to the East of point D. Point F is 5 m to the South of point E.

1. How far is point F from point A?
   (1) 2 metres (2) 8 metres
   (3) 3.5 metres (4) 5 metres
   (5) 10 metres

2. Which of the following represents the direction of point B with respect to point C?
   (1) North-East
   (2) South-West
   (3) South
   (4) South-East
   (5) North-West

3. All the letters of the word JUVEDA are arranged as per the English alphabetical series. Then a meaningful English word starting with J is formed with the first, second, sixth and seventh letters of the word so formed, which of the following will be the second last letter of the word?
   (1) J
   (2) U
   (3) V
   (4) Other than those given as options
   (5) E

4. How many alphabets (as per the English alphabetical series) are there between the second and seventh letters of the word JUVEDA?

Directions (5-10) : Study the following information carefully and answer the questions given below:

A building has eight floors numbered one to eight so that the ground floor is numbered one, the floor above it is numbered two and so on, with the topmost floor being numbered eight. One out of eight persons viz., J, K, L, M, N, W, X and Y lives on one of these floors.

J lives on floor number 6. Only two persons live between J and X. Only two persons live between Y and W. Y lives on a floor above W's floor. X lives on an even numbered floor. Only one person lives between W and K. Only two persons live between Y and J. J lives on one of the floors above Y.

5. Who lives on the topmost floor i.e., floor number 8?
   (1) X
   (2) V
   (3) M
   (4) W
   (5) K

6. Who lives exactly between the floors on which Y and J live?
   (1) W, X
   (2) L, V
   (3) M, W
   (4) N, K
   (5) None of these

7. Who amongst the following lives on the floor immediately above the floor on which J lives?
   (1) M
   (2) K
   (3) L
   (4) None of these
   (5) E

8. What is the floor number on which Y lives?
   (1) 5
   (2) 7
   (3) 6
   (4) No information provided
   (5) 8

Directions (11-15) : In each of the following questions two or three statements followed by two conclusions numbered I and II are given. You have to take the given statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Give answer (1) if neither Conclusion I nor Conclusion II follows.

Give answer (2) if either Conclusion I or Conclusion II follows.

Give answer (3) if only Conclusion I follows.

Give answer (4) if only Conclusion II follows.
Give answer (a) if both the conclusions I and Conclusion II follow.

11. Statements:
All drawers are tables.
Some tables are chairs.
No chair is a stool.

Conclusions:
I. Some tables are definitely not stools.
II. All drawers can never be stools.

12. Statements:
Some pens are erasers.
Some erasers are markers.

Conclusions:
I. No marker is a pen.
II. At least some markers are pens.

13. Statements:
All numbers are integers.
All integers are equations.

Conclusions:
I. All numbers are equations.
II. No equation is a number.

14. Statements:
No box is a carton.
Some cartons are folders.
No folder is a rack.

Conclusions:
I. Some racks are boxes.
II. All boxes are folders.

15. Statements:
Some days are weeks.
All weeks are months.
Some months are years.

Conclusions:
I. All weeks are years.
II. At least some days are months.

Directions (16-20): Study the following information carefully and answer the questions given below:

Eight friends - Q, R, S, T, U, V, W and X - are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of the four sides. The ones who sit at the four corners face the centre while those who sit in the middle of the sides face outside (i.e., opposite to the centre).

T sits second to left of Y. V sits at one of the corners of the table. Only two persons sit between T and R. W sits third to right of S. R does not sit at any of the corners. U is not an immediate neighbour of S. Both the immediate neighbours of U face outside. Q is not an immediate neighbour of Y.

16. Who sits third to left of W?
   (1) X
   (2) Q
   (3) R
   (4) U
   (5) V

17. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group?
   (1) B
   (2) Q
   (3) T
   (4) G
   (5) X

18. Who sits exactly between W and S when counted from the right of W?
   (1) T
   (2) R
   (3) U
   (4) Q
   (5) V

19. Which of the following statements is true regarding S?
   (1) U sits exactly between T and X.
   (2) U sits in immediate left of V.
   (3) U faces outside.
   (4) U is an immediate neighbour of S.
   (5) None of the given options is true.

20. What is the position of Q with respect to T?
   (1) Third to the right
   (2) Third to the left
   (3) Fourth to the right
   (4) Second to the right
   (5) Second to the left

21. Who amongst the following is facing HE?
   (1) E
   (2) W
   (3) F
   (4) U
   (5) V

22. Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which one of them does not belong to that group?
   (1) C
   (2) F
   (3) V
   (4) T
   (5) S

23. Which of the following statements is true regarding C?
   (1) C sits in the immediate left of D.
   (2) None of the given statements is true
   (3) C faces T.
ENGLISH LANGUAGE

Directions (41 - 50) : Read this sentence to find out whether there is any grammatical mistake in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark 'No error' as your answer. Ignore the errors of punctuation, if any.

41. Timmy was a tiny squirrel who was looking for nuts in a hollow tree. (1) nuts (2) looking

42. While Jojo was busy eating an ice cream, Kartik _______ a water balloon at him. (1) threw (2) casting

43. The capital of Vijayanagar was _______ by King Heman. (1) founded (2) abolished

44. A young man decided to take the Princess to his wedding to give her the habit of travelling across the globe. (1) wedding (2) gave

45. Dalma was an evil mother who wanted to get rid of her stepdaughter. (1) freed (2) rid

46. In order to better access to financial services, RBI has granted licenses to 11 entities to open payment banks. (1) access (2) granted

47. If you have taken a home loan for the renovation of your residence you can claim an income tax rebate under this Act. (1) claim (2) home

48. As the young girl reached the village she began to run because she wanted to reach home as soon as possible. (1) reached (2) run

49. Every state has been asked to nominate a fixed number of city as 'smart cities', keeping in mind certain guidelines and criteria. (1) nominated (2) smart

50. Unless the government encourages investment in manufacturing, many factories and job industrial units will close. (1) encourages (2) manufacturing

Directions (51 - 60) : In the following questions, the words given in bold are in a proper sequence as to form a meaningful paragraph and then answer the given questions.

51. The jackal wandered out of the jungle he lived in and reached a deserted battlefield. (1) wandered (2) reached (3) battlefield

52. Shaggy, the rude giant, owns a beautiful garden but never allows anyone to play in it. (1) rude (2) giant

53. Rohit has to fly in a hurry and let down her hair whenever the enchantress, who has imprisoned her, wants to climb up. (1) fly (2) climb

54. Lucy was surprised to know that her hare could talk and decided to take him on a trip to the market. (1) surprised (2) hare

55. Mandavi was a white flea who lived in the folds of an exquisite white silk sheet that covered the bed of a king. (1) white (2) sheet

Directions (61 - 69) : Rearrange the given six sentences/group of sentences (A), (B), (C), (D), (E) and (F) in a proper sequence so as to form a meaningful paragraph and then answer the given questions.

A) As soon as Nasser began shouting at her, his wife again opened the door to run out, just then he promptly advised, "This time, go to the baker's house as he makes delicious cakes."
(B) He shouted at her till she could not hear it and fled to their neighbour's house.

(C) One day Naseer quarrelled with his wife.

(D) Naseer followed her.

(E) Sometimes later, when they returned to their house, they began quarrelling again.

(F) The neighbours managed to pacify the angry husband and served the couple tea and sweets.

54. Which of the following should be the LAST (SIXTH) sentence after rearrangement?
   (1) E  (2) D
   (3) A  (4) B
   (5) F

55. Which of the following should be the SECOND sentence after rearrangement?
   (1) A  (2) I
   (3) F  (4) D
   (5) E

56. Which of the following should be the FIFTH sentence after rearrangement?
   (1) I  (2) D
   (3) A  (4) F
   (5) C

57. Which of the following would be the FOURTH sentence after rearrangement?
   (1) A  (2) I
   (3) B  (4) F
   (5) E

58. Which of the following should be the FIRST sentence after rearrangement?
   (1) A  (2) I
   (3) C  (4) E
   (5) D

Directions (59-70): Read the following passage carefully and answer the given questions. Certain word/pair of words have been given in bold to help you locate them while answering some of the questions.

Once upon a time, there lived a poor woodcutter. He cut trees in the woods for a living. One day he was cutting wood on the bank of a river. Suddenly, his axe slipped from his hand and fell into the river. The river was deep and the woodcutter could not take his axe out. Distressed, he sat on the bank of the river and began to weep. Mercury, the god of water appeared. He asked the woodcutter the reason for his sorrow. The woodcutter narrated the whole story to Mercury. Taking pity on the woodcutter, Mercury dived into water and brought out a gold axe. The woodcutter refused to take it, saying that this was not his axe. Mercury again dived and brought out a silver axe. The woodcutter did not take this one either and repeated that this was not his axe. Finally, Mercury brought out an iron axe. The woodcutter, overcome with weeping, gave it to Mercury. Mercury was highly pleased with the woodcutter. He rewarded the woodcutter by giving him the gold and silver axes as well.

61. Which of the following can be said about Mercury?
   (A) He had made plans to punish the woodcutter.
   (B) He felt sorry for the woodcutter.
   (C) He fixed around the bank of the river.
   (D) Only A
   (E) Only A and C
   (F) Only B
   (G) Only A and B
   (H) All (A), (B) and (C)

62. Which of the following cannot be said about the woodcutter?
   (A) The iron axe he received was a family heirloom.
   (B) He did not succumb to temptation.
   (C) He was well aware that he would be rewarded in the end.
   (D) Only A
   (E) Only B
   (F) Only C
   (G) Only A and C
   (H) All (A), (B) and (C)

63. Choose the word which is most similar in meaning to the word given in bold as used in the passage.
   (1) penalised
   (2) killed
   (3) rewarded
   (4) rewarded
   (5) borrowed

64. Choose the word which is most similar in meaning to the word given in bold as used in the passage.
   (1) Stained
   (2) Tired
   (3) Desperate
   (4) Tired
   (5) Desperate

65. Choose the word which is most similar in meaning to the word given in bold as used in the passage.
   (1) Good
   (2) Excellent
   (3) Excellent
   (4) Good
   (5) Excellent

66. Choose the word which is most similar in meaning to the word given in bold as used in the passage.
   (1) Limited
   (2) Limited
   (3) Limited
   (4) Limited
   (5) Limited
83. In a vessel, containing 40 litres of mixture of milk and water, water is only 30%. 12 litres of mixture was taken out and x litres of pure milk was added. As a result, the percentage of water in the mixture became 18%. What is the value of x?

(1) 20 (2) 22 (3) 32 (4) 30 (5) None of these

84. The compound interest (compounded annually) on Rs. 8500 for 2 years at the rate of 8% p.a. is Rs. 4032. Had the rate of interest been 12–18%, p.a. What would have been the interest on the same sum of money for the same time period of 2 years?

(1) Rs. 1945.05 (2) Rs. 2048 (3) Rs. 1934 (4) Rs. 2222 (5) Rs. 1555
35. It's monthly salary in 75% of A's monthly salary. From his salary, A spends 30% towards EMI and 35% towards miscellaneous expenditure. From the remaining amount, A invests 40% in shopping and now is left with Rs. 22,500. What is its monthly salary?

1. Rs. 75,000
2. Rs. 44,000
3. Rs. 60,000
4. Rs. 70,000

None of these

Directions (36 - 100): What will come in place of the question mark (?) in the following questions?

36. $\sqrt{3} - 3.75 = \frac{1}{9} \times (31)^2 - 8.11 +$?

(1) 2.6 (2) 1.5 (3) 5 (4) 4 (5) 23

37. $\frac{10 + 5 \times 7 + 2}{(14 + 9) - 139} = 1.45$

(1) 1.42 (2) 1.23 (3) 1.32 (4) 2.4 (5) 1.28

38. $(136 - 4 \times 12) \times 10 = ?$

(1) $\frac{4}{7}$ (2) $\frac{3}{7}$ (3) 2 (4) 3 (5) 1

39. $20%$ of 250 + 125 = $x$, $x = ?$

(1) 14 (2) 15 (3) 16 (4) 12 (5) 0

40. $(1.41)^2 - (0.7) = ?$

(1) 11 (2) 11 (3) 11 (4) 11 (5) 1

41. $33.8 + 14 \times 0.5 = ?$

(1) 16 (2) 14 (3) 0.14 (4) 1.4 (5) 1.8

42. $5 \frac{1}{6} \times 3 \frac{2}{5} + 5 \frac{3}{5} = ?$

(1) $17 \frac{2}{5}$ (2) $10 \frac{3}{5}$ (3) 18 (4) 20 (5) 21 $\frac{1}{2}$

43. $(245)^2 - (23)^2 = ?$

(1) 6.5 (2) -1.5 (3) 5.5 (4) -5.5 (5) -10.5

44. $3.5 \times 2.5 + 3.5 + 2 + 3.5 \times 5.5 = ?$

(1) 1 (2) 33 (3) 34 (4) 123 (5) 123

Directions (101-105): What will come in place of the question mark (?) in the following number series?

101. 28 10 20 46 7 ?

(1) 38 (2) 52 (3) 47 (4) 69 (5) 104

102. 50 40 30 20 10 ?

(1) 9 (2) 11 (3) 22 (4) 25 (5) 7

103. 15 18 33 20 9 ?

(1) 24 (2) 11 (3) 22 (4) 25 (5) 7

104. 16 54 228 7 8902 ?

(1) 11580 (2) 1180 (3) 10380 (4) 1120 (5) 1880

105. 13 12 22 48 7 236 ?

(1) 248 (2) 254 (3) 244 (4) 242 (5) 244

106. Train A can completely cross train B (from the moment they meet) travelling in opposite directions towards each other in 14 seconds. If the speed of trains A and B are 62 kmph and 52 kmph respectively and the length of the train A is 71 metre more than that of train B, what is the length of train A (in metre)?

(1) 226 (2) 203 (3) 251 (4) 193 (5) 276
than the radius of circle A, what is the circumference of circle B? (in cm)

- (1) 84
- (2) 77
- (3) 88
- (4) 66

120. The present list occurs when an article is sold for Rs. 629 in the list of the percent
that is included when the item
is sold for Rs. 651.50
Find the next price of the
article?

- (1) Rs. 738
- (2) Rs. 735
- (3) Rs. 748
- (4) Rs. 739
- (5) Rs. 735