

TEST OF REASONING & MENTAL ABILITY

1. Arrange the words given below in a meaningful sequence :

- (i) Presentation
- (ii) Recommendation
- (iii) Arrival
- (iv) Discussion
- (v) Introduction

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

2. How many such pairs of digits are there in the number 421579368 each of which has as many digits between them in the number as when they are arranged in ascending order?

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

3. How many 4's are there preceded by 7 but not followed by 3?

5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1
3 8 3 2 5 6 7 4 3 9 5 8 2 0 1 8 7 4 6 3

- (A) Four
- (B) Three
- (C) Six
- (D) Five

4. If South-East becomes North, North-East becomes West and so on, what will West become?

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

5. Seismography : Earthquake :: Tachometer : ?

- (A) Landslides
- (B) Strains
- (C) Resistances
- (D) Volcanoes

6. ABCDEFGHIJKLMNOPQR
STUVWXYZ

Which letter in this alphabet is the eighth letter to the right of the letter and which is tenth letter to the left of the last but one letter of the alphabet?

- (A) X
- (B) W
- (C) I
- (D) H

7. If you write down all the numbers from 1 to 100, then how many times do you write 3?

- (A) 11
- (B) 18
- (C) 20
- (D) 21

8. P is the brother of Q and R. S is R's mother. T is P's father. Which of the following statements cannot be definitely true?

- (A) T is Q's father
- (B) S is P's mother
- (C) P is S's son
- (D) Q is T's son

9. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man?

- (A) Mother's sister
- (B) Grandmother
- (C) Mother-in-law
- (D) Sister of father-in-law

10. There are six persons A, B, C, D, E and F. C is the sister of F. B is the brother of E's husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group. Who is the mother?

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

11. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?

- (A) Grandfather
- (B) Grandmother
- (C) Daughter
- (D) Granddaughter

12. A woman introduces a man as the son of the brother of her mother. How is the man, related to the woman ?

- (A) Nephew
- (B) Son
- (C) Cousin
- (D) Uncle to Grandson

Direction (Q. Nos. 13-15) : Find the missing number in the following series of questions :

13. 4, 18, ?, 100, 180, 294, 448

- (A) 48
- (B) 50
- (C) 58
- (D) 60

14. 3, 5, 5, 19, 7, 41, 9, ?

- (A) 71
- (B) 61
- (C) 79
- (D) 69

15. 1, 2, 3, 10, ?, 9802

- (A) 99
- (B) 199

(C) 299

(D) 999

16. Two bus tickets from city A to B and three tickets from city A to C cost

Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?

- (A) Rs. 4, Rs. 23
- (B) Rs. 13, Rs. 17
- (C) Rs. 15, Rs. 14
- (D) Rs. 17, Rs. 13

17. In a certain code language, '134' means 'good and tasty'; '478' means 'see good pictures' and '729' means 'picture and faint'.

Which of the following digits stands for 'see' ?

- (A) 9
- (B) 2
- (C) 1
- (D) 8

18. 583 is related to 293, in the same way as 488 is related to
- (A) 291
(B) 378
(C) 487
(D) 581
19. Sam ranked 9th from the top and 38th from the bottom in a class. How many students are there in the class?
- (A) 45
(B) 47
(C) 46
(D) 48
20. If FRIEND is coded as HUMJTK, how is CANDLE written in that code?
- (A) EDRIRL
(B) DCQHQK
(C) ESJFME
(D) DEQJQM
21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
- (A) MFEDJJOE
(B) EOJDEJFM
(C) MFEJDJOE
(D) EOJDJEFM
22. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?
- (A) 246173
(B) 214673
(C) 214763
(D) 216473
23. One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?
- (A) East
(B) West
(C) South
(D) Data is inadequate

24. Find the odd one out :

- (A) Crusade
- (B) Campaign
- (C) Expedition
- (D) Cruise

25. If in the word 'DISTURBANCE', the first letter is interchanged with the last letter, the second letter is interchanged with the tenth letter and so on, which letter would come after the letter T in the newly formed word ?

- (A) S
- (B) I
- (C) T
- (D) N

26. A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 10 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes ?

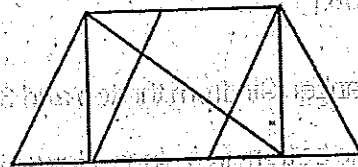
- (A) 32 rolls

- (B) 54 rolls

- (C) 108 rolls

- (D) 120 rolls

27. Find the number of triangles in the given figure :



- (A) 8

- (B) 10

- (C) 12

- (D) 14

28. Observe the dots on a dice (one to six dots) in the following figures. How many dots are contained on the face opposite to that containing four dots ?



(i)



(ii)

- (A) 2

- (B) 3

- (C) 6

- (D) Cannot be determined

29. A picture is copied onto a sheet of paper 8.5 inches by 10 inches. A 1.5 inch margin is left all around. What area in square inches does the picture cover?

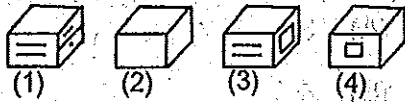
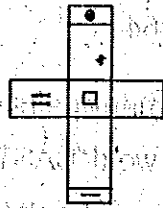
(A) 76

(B) 35

(C) 49

(D) 38.5

30. Choose the box that is similar to the box formed from the given sheet of paper (X):



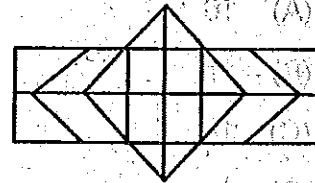
(A) 1, 2 & 3

(B) 1, 3 & 4

(C) 2 & 3

(D) 2, 3 & 4

31. Determine the number of rectangles and hexagons in the following figure:



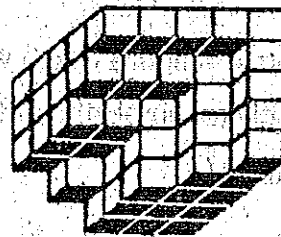
(A) 30, 5

(B) 32, 3

(C) 28, 5

(D) 30, 3

32. Count the number of cubes in the given figure:



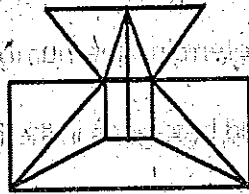
(A) 80

(B) 87

(C) 89

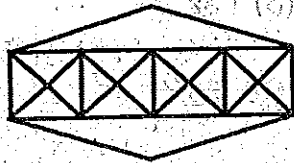
(D) 90

33. Find the minimum number of straight lines required to make the given figure :



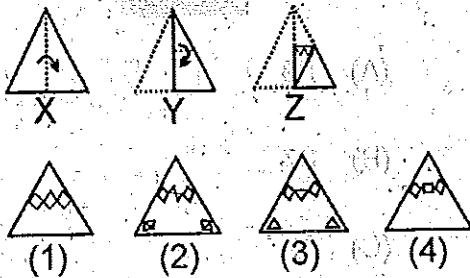
- (A) 16
(B) 17
(C) 18
(D) 19

34. Count the number of triangles and squares in the given figure :



- (A) 36 Triangles, 7 Squares
(B) 38 Triangles, 9 Squares
(C) 40 Triangles, 7 Squares
(D) 42 Triangles, 9 Squares

35. Choose a figure which would most closely resemble the unfolded form of figure (Z) :



- (A) 1

- (B) 2
(C) 3
(D) 4

36. A dice is numbered from 1 to 6 in different ways. If 1 is opposite to 5 and 2 is opposite to 3, then :

- (A) 4 is adjacent to 3 and 6
(B) 2 is adjacent to 4 and 6
(C) 4 is adjacent to 5 and 6
(D) 6 is adjacent to 3 and 4

37. A cube is painted blue on two adjacent surfaces and black on the surfaces opposite to blue surfaces and green on the remaining faces.

Now the cube is cut into 216 smaller cubes of equal size :

- (A) 56
(B) 48
(C) 32
(D) 64

38. How many pairs of letters are there in the word "CASTRAPHONE" which have as many letters between them in the word as in the alphabet ?

- (A) 3
(B) 4
(C) 5
(D) 6

39. How many meaningful English words can be formed with the letters ESRO using each letter only once in each word ?

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

40. 34 is related to 12; in the same way as 59 is related to :

- (A) 45
- (B) 38
- (C) 26
- (D) 14

41. What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon ?

- (A) 64
- (B) 32
- (C) 24
- (D) 16

Direction (Q. Nos. 42-45) : You are given a combination of alphabets and/or numbers followed by four alternatives (1), (2), (3) and (4). Choose the alternative which closely resembles the mirror image of the given combination.

42. TARAIN1014A

(1) A1014IARAT

- (2) A1014IARAT
- (3) A1014IARA
- (4) A1014IARAT

- (A) 1
- (B) 2
- (C) 3
- (D) 4

43. 1965INDOPAK

- (1) 1965INDOPAK
- (2) 5001DNIKAP
- (3) 1965INDOPAK
- (4) 1965INDOPAK

- (A) 1
- (B) 2
- (C) 3
- (D) 4

44. MALAYALAM

- (1) MALAYALAM
- (2) MAJAYAJAM
- (3) MΛYΛYΛM
- (4) MΛYAYAM

- (A) 1
- (B) 2
- (C) 3
- (D) 4

45. SUPERVISOR
- (1) SUPERVISOR
(2) SUPERVISOR
(3) SUPERVISOR
(4) SUPERVISOR
- (A) 1
(B) 2
(C) 3
(D) 4
46. Find the mirror image when the exact time shown in a clock was 8 : 40 :
- (A) 3 : 20
(B) 3 : 30
(C) 8 : 20
(D) 9 : 20
47. Find the mirror image when the exact time shown in a clock was 6 : 07 :
- (A) 5 : 63
(B) 6 : 53
(C) 5 : 53
(D) 8 : 53
48. In a row of boys, if A who is 10th from the left and B who is 9th from the right interchanges their

positions, A becomes 15th from the left. How many boys are there in the row ?

- (A) 23
(B) 31
(C) 27
(D) 28

49. If Z = 52 and ACT = 48, then BAT will be equal to :

- (A) 39
(B) 41
(C) 44
(D) 46

50. If the first and second letters in the word DEPRESSION were interchanged, also the third and the fourth letters, the fifth and the sixth letters and so on, which of the following would be the seventh letter from the right ?

- (A) R
(B) O
(C) S
(D) P