

NATIONAL TALENT SEARCH EXAMINATION (FIRST LEVEL)-2015
(For Students of Class X)
Mental Ability Test

Time : 45 minutes

Max. Marks : 50

There are 50 questions in this paper. Each question carries one mark

Questions (1-4)

Directions : In each of the questions 1 to 4 some of the letters are missing in the given series with one term missing shown by question mark (?). This term is one of the alternatives among the four groups of letters given under it. Find the right alternative.

1. A, F, J, M, ? .

(1) O

(2) N

(3) Q

(4) P

Ans. [1]

2. BD, HJ, NP, ? , ZB

(1) QS

(2) TV

(3) YC

(4) TU

Ans. [2]

3. FOX, IQV, LST, OUR, ? .

(1) RPW

(2) RWP

(3) QVS

(4) SXU

Ans. [2]

4. qpo, nml, ? .

(1) ghf

(2) ijk

(3) kji

(4) hgj

Ans. [3]

Questions (5-8)

Directions : In each of the questions 5 to 8 some of the numbers are missing in the given series with one term missing shown by question mark (?). This term is one of the alternatives among the four numbers given under it. Find the right alternative.

11. Statements (i) : Without rains the crops will not be good.
 (ii) : The crops were good.
 Conclusions (I) : There were rains.
 (II) : Crops were good due to good fertilizers.
 (1) Only conclusion I is true (2) Only conclusion II is true
 (3) Both conclusion I and II are true (4) Neither conclusion I nor conclusion II is true

Ans. [1]

12. Which of the following Venn diagrams correctly represents persons, trees and environment ?



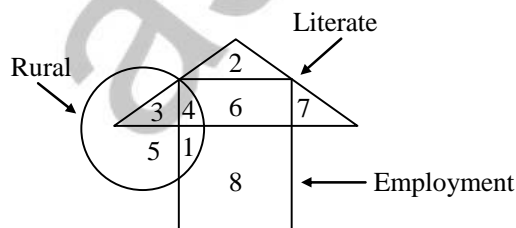
Ans. [1]

13. Which of the following Venn diagrams correctly represents Jaipur, Rajasthan and India ?



Ans. [3]

- 14.

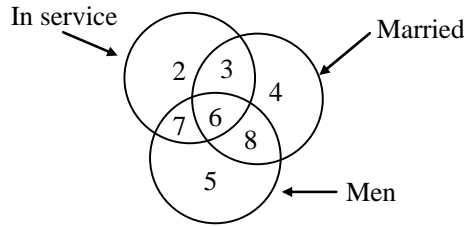


In the above diagram, how many literates are in employment ?

- (1) 5 (2) 11 (3) 10 (4) 6

Ans. [3]

15.



In the above diagram the number of men who are married and in service is -

- (1) 2 (2) 6 (3) 9 (4) 17

Ans. [2]

Questions (16–19)

Directions : In questions 16 to 19 three alternatives are alike in a certain way but the rest one is different. Find out the odd one and write correct answer.

16. (1) ACEGF (2) FHJLK (3) KMOQP (4) UWYZA

Ans. [4]

17. (1) 125 (2) 150 (3) 300 (4) 250

Ans. [1]

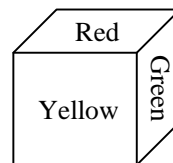
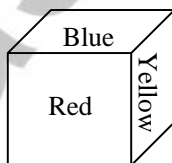
18. (1) 28, 4 (2) 35, 5 (3) 63, 7 (4) 56, 8

Ans. [3]

19. (1) Cement (2) Brick (3) Sand (4) Colour

Ans. [4]

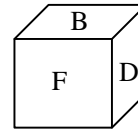
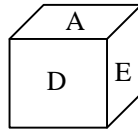
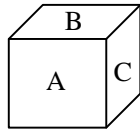
20. In the given dice the colour of opposite side of the face having blue colour will be -



- (1) Red (2) Green (3) Yellow (4) Blue

Ans. [2]

21. Which alternative is correct in the given figures of dice ?



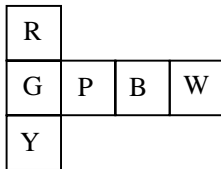
- (1) E is opposite of A
 (2) C is opposite of E
 (3) C is opposite of D
 (4) F is not opposite of A

Ans. [3]

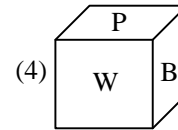
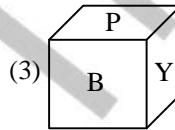
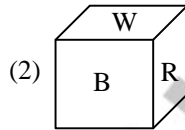
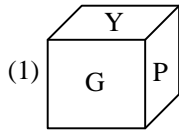
Questions (22–23)

Directions : Answer on the basis of given figure that the different faces are folded in the form of cube.

22.

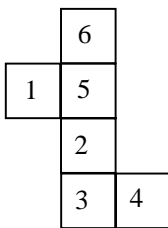


Which figure of cube is not correctly formed in the following figures ?

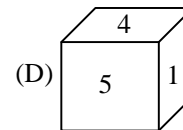
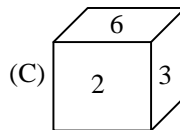
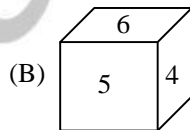
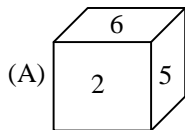


Ans. [4]

23.



Which alternative is correct in the following figures of dice?



- (1) Only A
 (2) Only B
 (3) Both A and C
 (4) A, B, C and D

Ans. [2]

24. If in a coded language the word 'EAST' is written as 'FAST' and 'BAT' is written as 'CAT' , then in the same coded language 'RAT' will be written as -

- (1) TAP (2) SAT (3) PAT (4) QAT

Ans. [2]

25. If P = 16, NC = 17 and AEO = 21, then what is the value of NEHLA ?

- (1) 41 (2) 40 (3) 48 (4) 46

Ans. [2]

26. In a coded language 'Red colour pen = 276', 'Green colour flower = 789' and 'White colour pen = 247'. The code for white is -

- (1) 2 (2) 5 (3) 4 (4) 7

Ans. [3]

27. In a coded language 'NUMBER' is written as 'PSOZGP'. Then in the same coded language 'BLOOD' will be written as -

- (1) ZJMMB (2) ZNMQB (3) DJQMF (4) DNQQF

Ans. [3]

Questions (28–30)

Directions : In each of the following questions a statement is given followed by two conclusions I and II. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements.

28. Statements : All students are boys.
No boy is dull.

Conclusions (I) : There is no girl student in the class.

(II) : No student is dull.

- (1) Only conclusion I is true (2) Only conclusion II is true
(3) Both conclusion I and II are true (4) Neither conclusion I nor conclusion II is true

Ans. [3]

29. Statements : All poets are intelligent.
All singers are intelligent.

Conclusions (I) : All singers are poet.

(II) : Some intelligent persons are not singers.

- (1) Only conclusion I is true (2) Only conclusion II is true
(3) Both conclusion I and II are true (4) Neither conclusion I nor conclusion II is true

Ans. [2]

30. Statements : A car is required on rent – an advertisement.

Conclusions (I) : All types of vehicles are available on rent.

(II) : People will respond to the advertisement.

(1) Only conclusion I is true

(2) Only conclusion II is true

(3) Both conclusion I and II are true

(4) Neither conclusion I nor conclusion II is true

Ans. [2]

31. A and B are brothers, C and D are sisters. The son of A is brother of D. Then the relation of B with C is -

(1) Husband

(2) Brother

(3) Uncle

(4) Nephew

Ans. [3]

32. Ram is the brother of Deepak, Sunita is sister of Rajesh, Deepak is the son of Sunita. How is Ram related to Sunita ?

(1) Son

(2) Brother

(3) Nephew

(4) Father

Ans. [1]

33. If $79 \oplus 86 = 6897$, then the value of $53 \oplus 47 =$

(1) 5347

(2) 7435

(3) 2491

(4) 3574

Ans. [2]

34. If the numbers 719, 609, 735, 689, 834, 937, 600, 798, 610 are arranged in ascending order, then the multiplication of digits of the mid-number is -

(1) 96

(2) 9

(3) 17

(4) 63

Ans. [4]

35. If $P > Q$, $Q > R$ and $R > S$, then $P \dots? \dots S$.

(1) $P > S$

(2) $P = S$

(3) $P < S$

(4) $P \geq S$

Ans. [1]

36. Urmila has 23rd rank from the right and 15th rank from the left. Then, how many persons are there in the row ?

(1) 37

(2) 38

(3) 9

(4) 8

Ans. [1]

37. If 4th day of any month was Sunday, what will be the day on 27th day of the same month ?

(1) Monday

(2) Tuesday

(3) Wednesday

(4) Saturday

Ans. [2]

38. If 3rd January, 2004 was Monday, what will be the day on 5th April, 2004 ?
 (1) Wednesday (2) Monday (3) Sunday (4) Tuesday

Ans. [1]

39. If 14th July of 1995 was Friday, then what was the day on 30th march of 1994 ?
 (1) Sunday (2) Monday (3) Tuesday (4) Wednesday

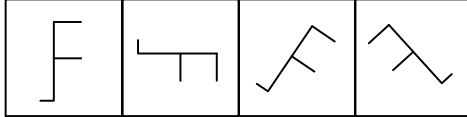
Ans. [4]

40. If 4 days before today it was Monday, what day will it fall on after 3 days ?
 (1) Sunday (2) Monday (3) Tuesday (4) Wednesday

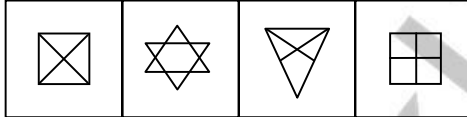
Ans. [2]

Questions (41–45)

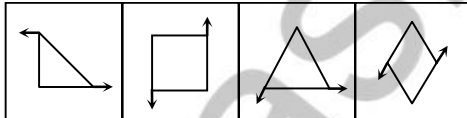
Directions : In questions 41 to 45 there are four figures given. One of these does not correlate with the rest of the figures. Find out that odd figure.

41. 
 (1) (2) (3) (4)

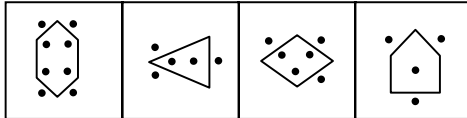
Ans. [4]

42. 
 (1) (2) (3) (4)

Ans. [2]

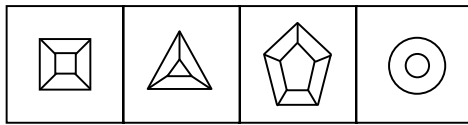
43. 
 (1) (2) (3) (4)

Ans. [1]

44. 
 (1) (2) (3) (4)

Ans. [4]

45.



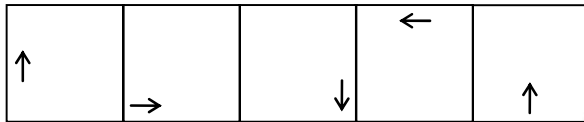
(1) (2) (3) (4)

Ans. [4]

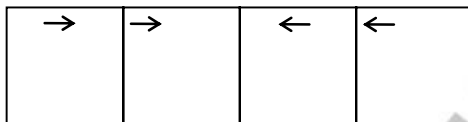
Questions (46–50)

Directions : In questions 46 and 47 there are two sets of figures. One set contains problem-figures while the other has answer-figures. There is a sequence according to which the problem-figures are arranged. You have to select one figures from the set of answer-figures which can be placed in sequence after the set of problem-figures. Find out the correct figure.

46. Problem-figures



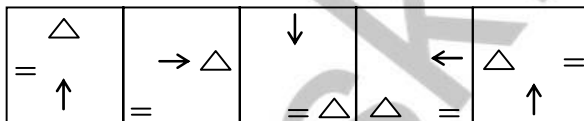
Answer-figures



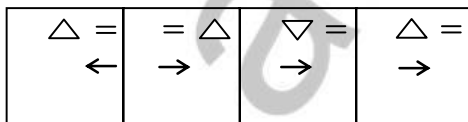
(1) (2) (3) (4)

Ans. [2]

47. Problem-figures



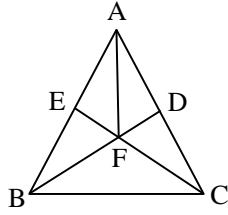
Answer-figures



(1) (2) (3) (4)

Ans. [4]

48. How many triangles are present in the following figure?

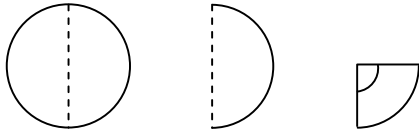


- (1) 14 (2) 10 (3) 12 (4) 09

Ans. [3]

49. In the following question, three figures showing a sequence of folding a paper are given. Which could resemble the figure when the third figure is unfolded ?

Problem-figures

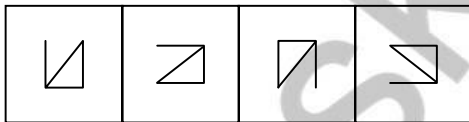
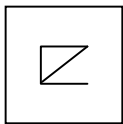


Answer-figures



Ans. [3]

50. Choose the correct mirror image of the given problem figure from given four alternatives.



- (1) (2) (3) (4)

Ans. [4]