MENTAL ABILITY TEST

NTSE STAGE 1(2016 - 17)

(For Students of Class X)

Time Allowed : 45 Min.   **Maximum Marks : 50**

Direction: From question 1 to 6 each question has four Terms. Three terms are alike in some way. one term is different from three others. Find out the correct term which is different from three others and write its alternative number on your answer sheet against the proper question number-

1. (1) G I L P   (2) D F J O   (3) B D J K   (4) E G J N

1. 3

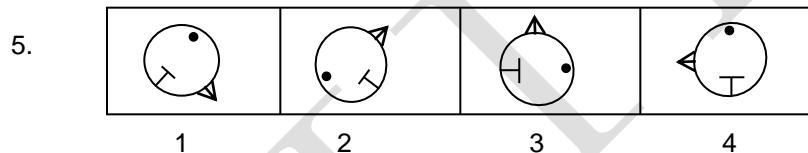2. (1) Iron   (2) Copper   (3) Brass   (4) Bronze
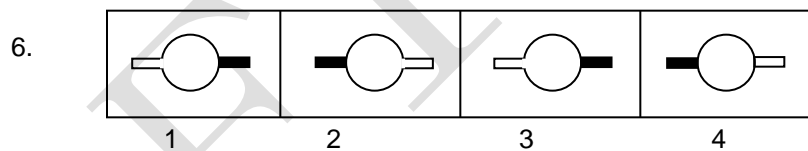
2. 3

3. (1) 512   (2) 343   (3) 125   (4) 729

3. 1

4. (1) I J M R   (2) C D G L   (3) G H L R   (4) E F I N

4. 3

5.

5. 2

6.

6. 4

7. CHJN : AEHK : : ELIP : ?

    (1) CFJM   (2) CGJN   (3) BFKM   (4) BHLO

7. 1

8. GCAE : 4 : : JEBH : ?

    (1) 6   (2) 7   (3) 5   (4) 8

8. 3

9. 4096 : 8 : : 1296 : ?

    (1) 7   (2) 9   (3) 11   (4) 6

9. 2

10. Drop : Ocean : : Constellation : ?

(1) Shine   (2) Sky   (3) Light   (4) Star

10.   2

11.   6 : 12 : : 9 : ?

(1) 39   (2) 36   (3) 27   (4) 33

11.   3

Direction:- Question from 12 to 17 are based on number/figure series. In each series missing term is mentioned by question mark (?). Find out the missing term in given alternatives and write its alternative number against the correct question number on your answer sheet-

12.   16, 19, 28, 43, 64, ?

(1) 91   (2) 86   (3) 97   (4) 76

12.   1

13.   63, 58, 51, 40, 27, ?

(1) 8   (2) 12   (3) 10   (4) 14

13.   3

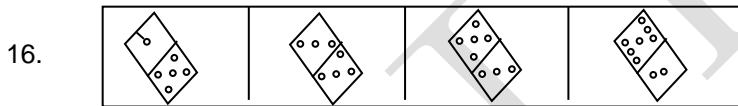14.   7, 25, 61, 121, ?

(1) 230   (2) 216   (3) 208   (4) 211
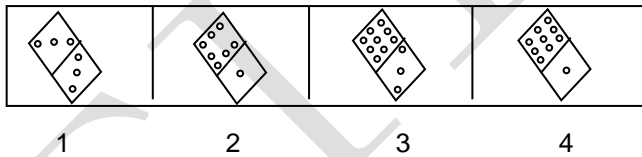
14.   4

15.   3, 4, 8, 17, 33, 58, ?

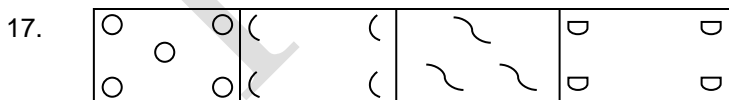(1) 76   (2) 94   (3) 84   (4) 98

15.   2

Question Figures

16.

Answer Figures

1   2   3   4
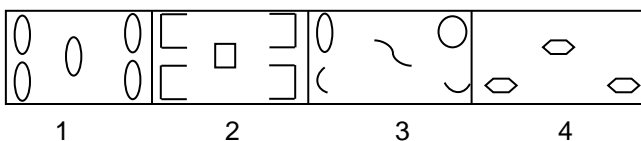
16.   4

Question Figures

17.

Answer Figures

1   2   3   4

17.   4

Direction:- Question 18 to 21 the letters in column I are coded in the form of numbers. Which are written in column II, but the order of numbers is different. Read carefully code of letters. Find out correct answer

in given alternative and write its alternative number against the corresponding question number on your answer sheet-

Column-I	Column-II
C J L	359
E J P	092
P C K	304
K N D	478
N E V	721

18. What will be code of K N P –
    (1) 870   (2) 327   (3) 951   (4) 470

18. 4

19. What will be code of C J E –
    (1) 123   (2) 392   (3) 724   (4) 803

19. 2

20. What will be code of L J K –
    (1) 270   (2) 903   (3) 594   (4) 741

20. 3

21. What will be code of P V D –
    (1) 018   (2) 372   (3) 209   (4) 743

21. 1

22. If in certain code language E J N P is written as C G J K. What will be code of C H L R in same language-
    (1) A D H N   (2) B E J M   (3) E J I O   (4) A E H M

22. 4

23. If in certain code language G L R T is written as 14. What will be code of C H N S in same language.
    (1) 13   (2) 11   (3) 17   (4) 19

3

Direction:- Question 24 to 28 are based on definite series, In given question some symbols are missing shown by (-). The missing symbols are given in proper sequence as one of the four alternatives given under each question. Find out the correct alternative and write number on the answer sheet against the question number-

24. - C P - D - P - D C – I
    (1) D I C I P   (2) E I C P D   (3) I D P C D   (4) P C I D C

24. 1

25. - - J - V - J W - U - -
    (1) W U V U V U J   (2) V W U V W U J   (3) V U W U V J W   (4) J V U V J V J

25. 3

26. - - J – F – J M – S J
    (1) S F M S F S   (2) F S M S F M   (3) M F S S F M   (4) F M S M S F

26. 2

27. - - K – E – K X – P – X

(1) P E X E P K   (2) P K E X E K   (3) K E P E X K   (4) E P X P E K

27.   4

28.   - F S – G – S – G F – L

(1) G L F L S   (2) L G F L S   (3) S G L F L   (4) F L G S F

28.   1

Direction:- Question no. 29 to 31 are based on the information given below. Read the information carefully, and find out the correct answer from the four alternative and write its alternative number on your answer sheet against the proper question number-

For being graduate Dinesh opted Sanskrit, Science and Hindi, Ganesh opted English, Mathematics and Hindi, Umesh opted English Science and Hindi. Nita opted Sanskrit Science and Hindi. While Gita opted English, Sanskrit and Hindi. Then answer the following question.

29.   Which subject opted by the most students-

(1) Sanskrit   (2) Science   (3) Hindi   (4) English

29.   3

30.   Which subject opted by the least student-

(1) Science   (2) Mathematics   (3) English   (4) Sanskrit
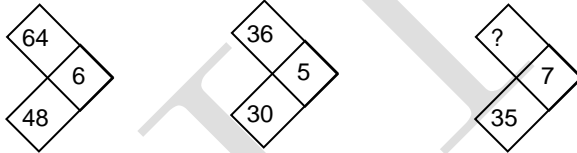
30.   2

31.   How many student opted sanskrit subject-

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

31.   4

Direction:- In Question 32 to 36 number are placed in figure on the basis of some rules. One place is vacant which is indicated as (?). Find out the correct alternative for the vacant place and write its number against the proper question number on your answersheet-
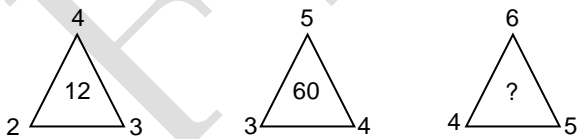
32.

(1) 36   (2) 25   (3) 49   (4) 18
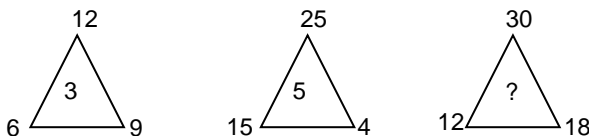
32.   2

33.

(1) 72   (2) 48   (3) 15   (4) 60

33.   1

34.

(1) 8   (2) 2   (3) 6   (4) 15

34.   3

35.

6	6	5
8 (14) 4	9 (15) 7	7 (?) 6
3	8	7

(1) 7   (2) 9   (3) 11   (4) 13

35.   1

36.

6	3	7
2 (74) 3	4 (125) 6	4 (?) 1
5	8	5

(1) 94   (2) 91   (3) 86   (4) 90

36.   2

Direction:- The following question from 37 to 41 are based on the information given below. Read the information carefully and find out the correct answer from the four alternative and write its alternative number on your answer sheet against the proper question number. There are six person P,Q,R,X,Y and Z, R is the sister of Z, Q is the brother of y's husband, X is the father of P and grand father of Z. There are two fathers, three brothers and a mother in the group-

37.   Who is y's husband-

(1) Q   (2) P   (3) X   (4) Z

37.   2

38.   Who is the mother-

(1) X   (2) Q   (3) P   (4) Y

38.   4

39.   How many male members are there in the group-

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

39.   3

40.   Which of the following is group of brothers-

(1) P Q X   (2) P Q Z   (3) Q Z R   (4) Q X Z

40.   2

41.   How is Z related to Y –

(1) Son   (2) Uncle   (3) Daughter   (4) Husband

41.   1

Direction:- In question 42 to 45 the questions have become wrong because of the wrong order of signs. Choose the correct order of signs from the four options given below so as to make the equations right. Write the alternative number of the correct option on the answer sheet against the corresponding question number-

42. $16 = 8 + 2 \times \div 7$

(1) $\times \div + =$ (2) $\div \times + =$ (3) $\times + \div =$ (4) $\div + = \times$

42.   2

43. $12 - 6 = 2 + 3 \div 1$

    (1) $+ - \div =$ (2) $- + \div =$ (3) $\div + - =$ (4) $+ \div - =$

43. 3

44. $2 + 4 - 6 \times 4 = 10$

    (1) $\times + - =$ (2) $- \times = +$ (3) $= - \times +$ (4) $- = + \times$

44. 1

45. $15 = 5 + 2 \times 1 \div 7$

    (1) $\times \div + =$ (2) $+ \times \div =$ (3) $+ \div = \times$ (4) $\div \times + =$

45. 4

46. Two person are sitting back to back. If the first person face is towards north. In which direction will be right hand of the second person-

    (1) South   (2) East   (3) West   (4) North

46. 3

47. Two person are working facing one-another if the face of the first person is towards the west. In which direction will be the right hand of the second person-

    (1) South   (2) East   (3) North   (4) West

47. 1

Direction:- Read the following statement carefully and answer the question no 48 and 49. Write the correct alternative number on your answer sheet-

Ramu, Ganesh, Satish, Umesh and Ramesh are five brothers, Ganesh is 6 year younger to Ramu and 5 years to Ramesh, Ramu was born in 1985, Ramu is 4 year younger to Satish and 3 year elder to Umesh.

48. Who is eldest among five brothers-

    (1) Ramesh   (2) Satish   (3) Ganesh   (4) Umesh

48. 2

49. Who is youngest among five brothers-

    (1) Ramesh   (2) Umesh   (3) Ganesh   (4) Ramu

49. 3

50. A person earn two rupees on the first day. If he earns daoble evey next day. What will be his earning at the 11th day-

    (1) 1976   (2) 2056   (3) 1850   (4) 2048

50. 4