KERALA NTSE STG 1 2017-18 MAT-TEST

1. In a certain code language computer is written as FNPOXSHQ. What is the oce for the word PRACTICE
   A. SRIBULFD
   B. ORICULFD
   C. SQDBWHFD
   D. OPLAUIDF

2. If HOTEL can be given the code 12 and EAR cab be given the code 8 then what code number can be given to the word BORE?
   A. 4
   B. 6
   C. 10
   D. 9

   Direction : Qn (3- 4) : Which of the following numbers is wrong in the series ? select from the alternatives.

3. 1,3,10,21,64,129,358
   A. 129
   B. 21
   C. 356
   D. 64

4. 66,68,72,80,94,128
   A. 94
   B. 68
   C. 80
   D. 72

5. Find out the odd one
   A. Ptd
   B. Grk
   C. Noc
   D. Jlc

   Direction : in each of the qus from (6 -7) a letter / number series as given in which some of the letters are missing. This missing letters / numbers are given in their proper sequence in one of the option. Find out the correct options to each qus.

6. a _ m _ b _ _ mcb _ _ mcb
   A. bacbab
   B. bcabab
   C. abcbc
   D. abbbcc

7. 25B _ 4 _ DH _ 11F _ 8 _ HN
   A. E, 8, 7, D, 9
   B. C, 7, 4, E, 9,
   C. D, 8, 6, C, 7
   D. E, 8, 6, K, 14

8. Find the odd one
   A. Walk
   B. Hear
   C. Jump
   D. Pull

9. Find the missing term in the given number series. 13, 17, 26, 42 ?
   A. 69

B. 67
C. 71
D. 70

10. Which one of the following numbers should replace the qus mark ?
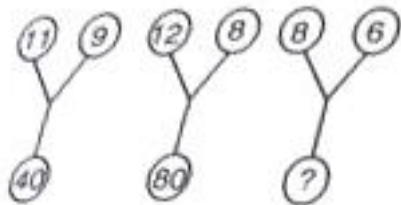
A. 28
B. 20
C. 10
D. 24

11. What should occupy the blank space?

A. 5
B. 17
C. 7
D. 14

12. Which alphabet should occupy the blank space ?

A. U
B. H
C. L
D. W

13. Ravi walks a distance of 100 meters towards the north. He then turned to the left and walks for about 30 meters turns left again and walked 110 meters finally he turned to the right at an agle of 45° and walk on. In which direction does he walk finally ?
A. North west
B. South west
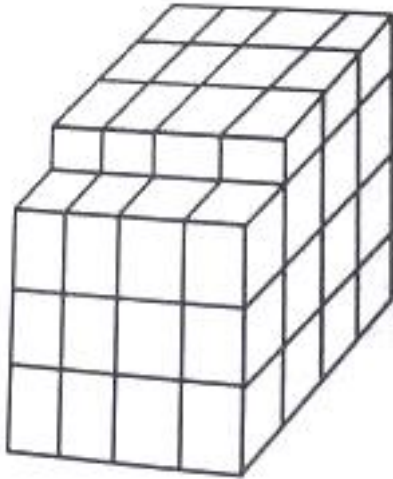C. South west
D. North west

14. If in a code language

   5 x 3 x 6 = 23

   4 x 8x 7 = 60 then

   6 x 3 x 7 = ?

   A. 25

   B. 26

   C. 27

   D. 28

15. Some cube of equal size have been arranged in the form of a solid block as shown in fig. it is painted red on all of its surfaces except the base. How many cues have three faces coloured?


   A. 1

   B. 6

   C. 8

   D. 10

16. Three of the following group of elements are alike in a certain way and do form a group. Which is the one that doesn't belongs to the group?

   A. Q 8 9

   B. 6 8 P

   C. 1 3 F

   D. D S 7

17. If each letter of the alphabet has a value of zero, each symbol has a value equivalent to the square of the numeral that immediately proceeds the symbol or the value of 1 if is not immediately proceeded by any numeral, what will be the sum of the value of the first 1-elements of the series starring from the extreme left?

   A. 141

   B. 153

   C. 132

   D. 126

   Direction: qus (18- 19) are based on the following fig.
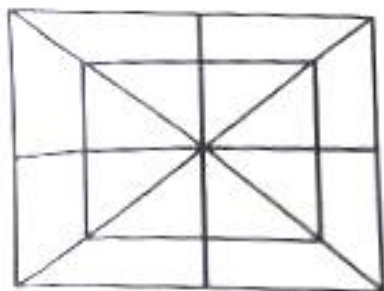
18. How many rectangles are there in the fig. given above ?
    A. 11
    B. 8
    C. 18
    D. 12

19. How many triangles are there in the given fig?
    A. 28
    B. 32
    C. 30
    D. 26

20. This qus consisits of two words that have a cetain relationship with each other. Select the option paid which has the same relationship as the pair of words in the qus
    Karnataka : state
    A. Paper : Book
    B. Fire : Smoke
    C. Water : River
    D. Gun : Weapon

Direction : Qus (21 – 22) which of the following fig. represents the relationship amoung the three classes ?
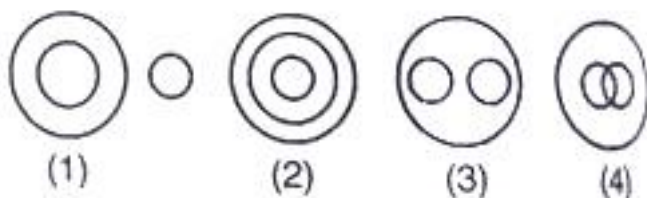
21. Nitrogen, Ice, Air
22. Forest, Earth, Mountains

Directions : Qus (23- 25) are based on the given fig. study the fig . there is some relationship between two terms to the left of and the same relationship holds between two terms to the right. One term to the right of is missing. Find out the missing term?
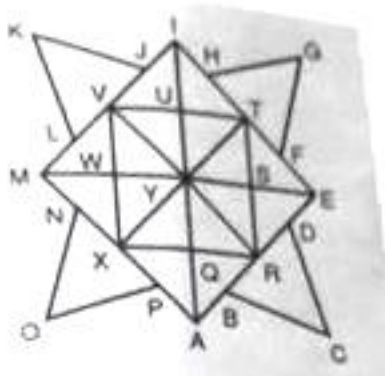
23. LKJ : AYE : : HGF ?
    A. PXN
    B. APX
    C. WXQ
    D. MYA

24. VWST : XAR ; : ? : RET
    A. WSRX
    B. QRTU
    C. XQUV
    D. RSWS

25. IQR : AUV : : MSR?
    A. XYQ
    B. BCD
    C. RSE
    D. EWV

26. In a queue shekhar is 12th from the back. Peater's place is 20th from the front. Vishal is standing in the middle of the two. What could be the minimum number of children standing in the queue ?
    A. 23
    B. 25
    C. 20
    D. 21

27. In a group of cats and crows, the number of legs is 12 more than twice the number of heads. The number of cat is
    A. 6
    B. 4
    C. 5
    D. 8

28. If the letters of the follwong words are arranged in alphabetical order and the group of letters so formed are rearranged in a dictionary which word should come third ?
    A. Read
    B. Draw
    C. Black
    D. Play

29. In the following question two expression on either said of the sing (=) will have the same value if two terms are replaced as given in the alternatives. Find out the correct alternative option
    $2 + 5 - 3 \times 4 / 4 = 2 + 3 \times 12 - 4$
    A. 2 and 3, ' + ' and 'x'
    B. 2 and 4, '+' and 'x'
    C. 2 and 4, '+' and '+'
    D. 3 and 4, '+' and '-'

30. Mohan wlaks from his house at a speed of 5 kmph, speed and reaches his office 10 minutes late. If his speed had been 6 kmph he would have reached 10 minutes early. What is the distance to his office from his house?
    A. 8 km
    B. 15km
    C. 12km
    D. 10km

    Direction : question (31 -32)
    A – B Means ' A is the daughter of B'
    A – B means 'A is the son of B

A – B means A is the wife of B

31. If L M N P N , which of the following is not true ?
    A. P is the mother of M
    B. N is the husband of P
    C. L is the wife of M
    D. M is the daughter of P

32. If C S P W Q what is W to C ?
    A. Father
    B. Mother
    C. Grandmother
    D. Daughter

Direction : question (33 – 34) ; study the following diagram carefully and choose the correct answer for the following questions
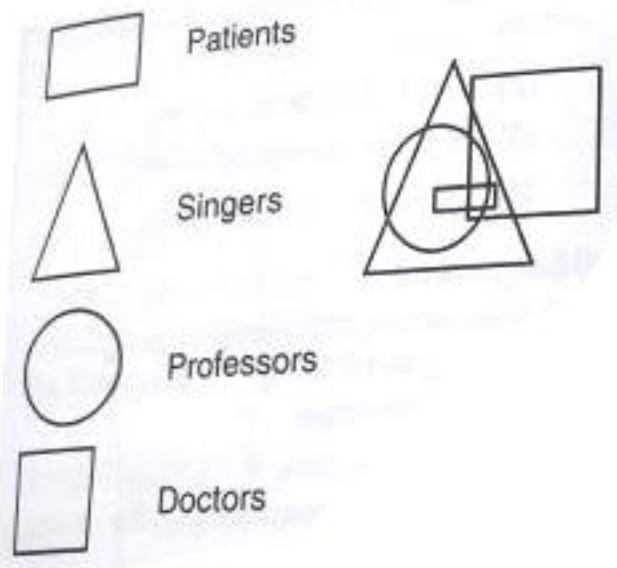
33. Which of the following statement is true ?
    A. No patient is a preofessor
    B. All professors are doctors
    C. All doctors are singers
    D. Some patients who are signers are also doctors as well as progessors

34. Which of the following statement is not true ?
    A. Some doctors are not singers
    B. All patients are singers
    C. Patients who are doctors are signers
    D. All doctors are singers

35. Directions questions (35): in this question there are two statements followed by four conclusions I, II, III and Iv. You have to decide which of the given conclusions logically follows from the given statements?
    Statements :
    Some rabbits are birds.
    All birds are vegetables.
    Conclusions :
    I.   Some birds are rabbits
    II.   No bird is a rabbit.
    III.   Some vegetables are rabbits
    IV.   All vegetables are rabbits.

1. Only I follows
2. Either I or II follows
3. Either III or Iv follows
4. I and III follows

   Direction : questions (36 – 37):
   Read the following statements ad answer the queston given.
   Anand has five books. P, Q, R , S and T each of the different weight.
   P weight twice as much as Q
   Q weight 3 and half times as much as R
   R weight half as much as S
   S weight half as much as T
   T weight less than P but more the R

36. S is behavior in weight's than which of the following books
    A. R
    B. P
    C. Q
    D. T

37. Which of the following represents the descending order of ht weigh's of books?
    A. PQTRS
    B. PTQSR
    C. TQPSR
    D. RSQTP

38. In a class half of the students participate in the music competition and half of the remaining participates in the dance competition. Half of the students participating in the music competition and half of the students participating in the dance competition participate in the drama competition. Then the shaded portion of which of the following diagrams represents the students participating in the drama competition?
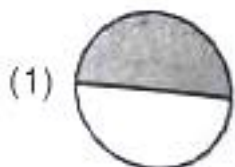
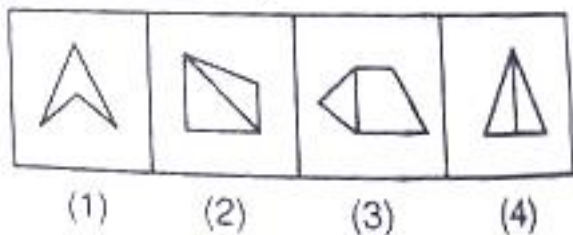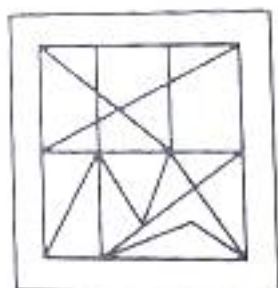39. Choose from the options, the box that should formed when fig A is folded

Figure (A)

(1) (2)
(3) (4)
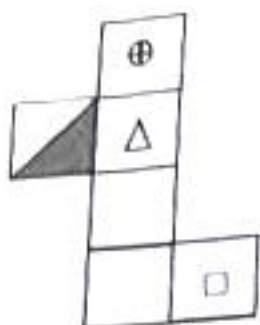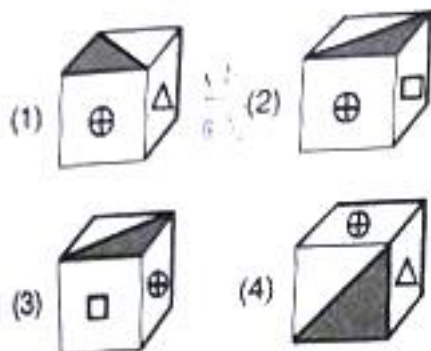
40. If march 15, 2006 was a Wednesday, what day of the week is April 10, 2010?
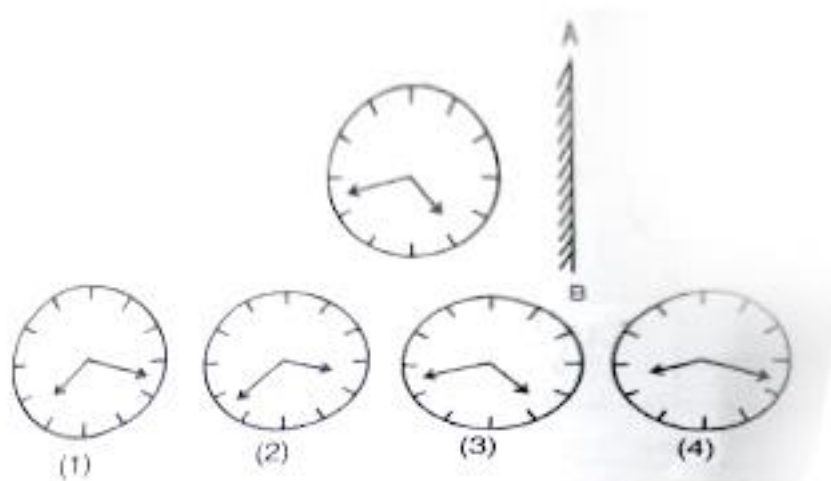   A. Monday
    B. Wednesday
    C. Saturday
    D. Sunday

41. Select the options which is embedded in the given fig. ?
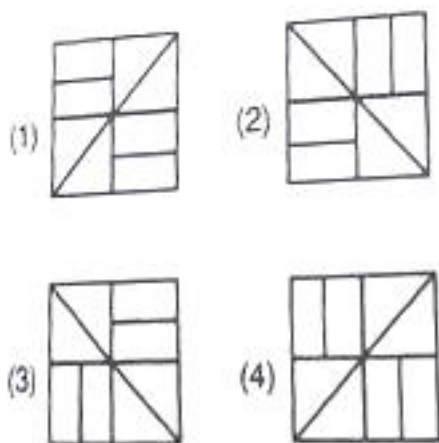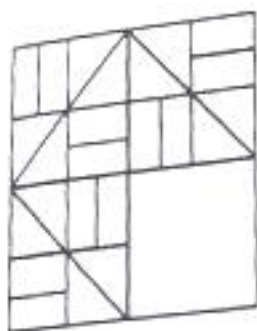

(1)   (2)   (3)   (4)

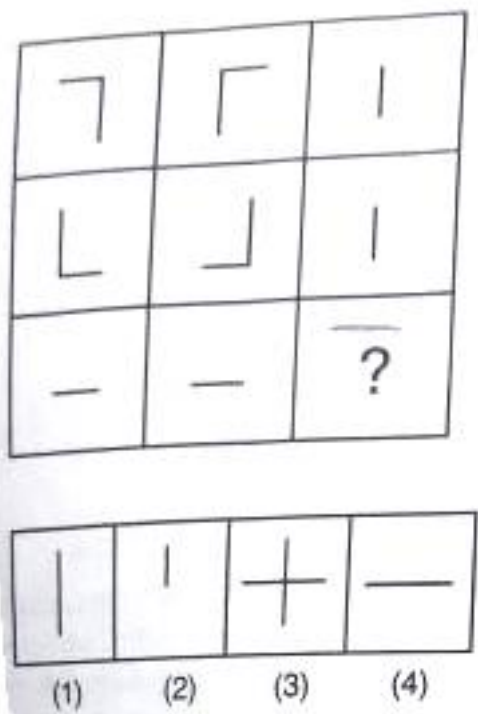42. Which of the options is the mirror image of the given fig when the mirror os hold at the AB position?

43. In the following question select one of the options which fits into the lank space of the given pattern
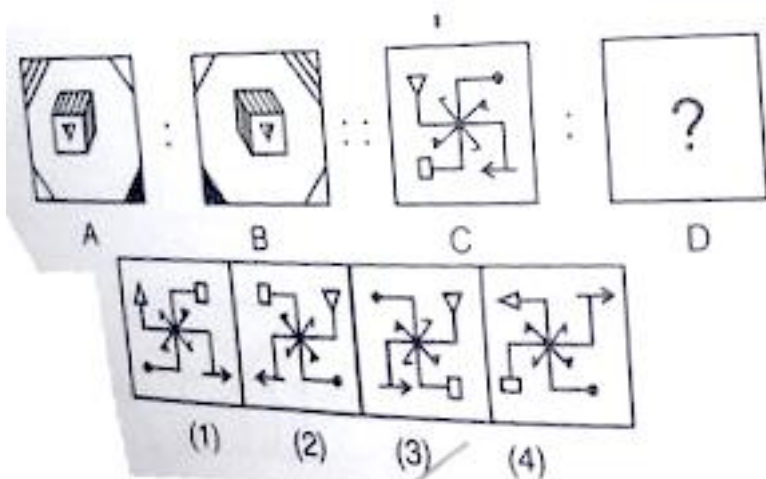

44. Choose the correct alternative from amongst the options which completes the fig matrix
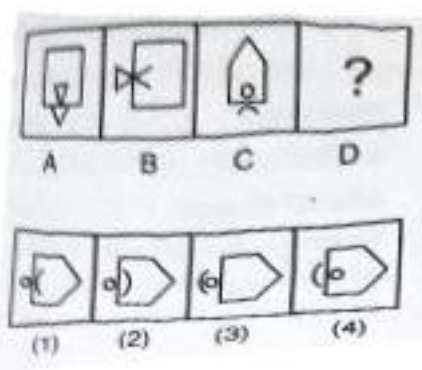
Directions: questions (45- 46) there is a relationship between fig A and B. find the figure which establishes a similar relationship between C and D.
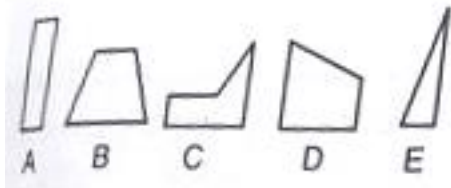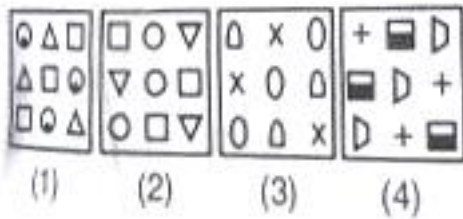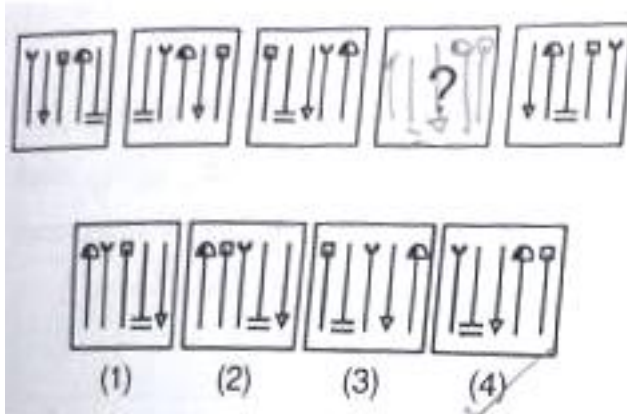
45.

46.

Courtesy : NTSE

47. Select three out of following five alternative fig A, B , C, D , E which together form a complete square


A. ACD
B. CDE
C. ABC
D. BCE

48. Find the odd one out

49. A sequence of fig is given below and a questions mark is given in the place of the ourth fig. which one of the options marked 1, 2, 3, 4 should come in the place of the questions mark in the sequence ?

50. A piece of paper is folded as shown below ad cuts are made as marked . what would be the paper belike when unfolded ? choose the answer from the options.
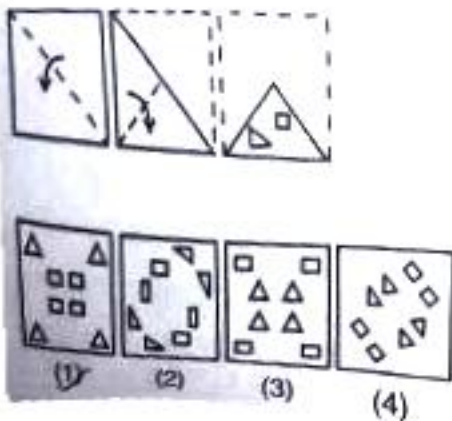
Answer key

1. 3   2. 3   3. 3   4. 1   5. 4

6. 2   7. 4   8. 2   9. 2   10. 1

11.   12. 4   13.   14. 3   15. 2

16. 1 or 3   17. 4   18. 3   19. 2   20. 4

21. 1   22. 4   23. 4   24. 4   25. 2

26. 2   27. 1   28. 4   29. 1   30. 4

31. 4   32. 3   33. 4   34. 4   35. 4

36. 1   37. 2   38. 2   39. 4   40. 3

41. 1   42. 1   43. 3   44. 3   45. 3

46. 1   47. 1   48. 2   49. 2   50. 2