

KERALA NTSE STG 1 2017-18 MAT-TEST

1. In a certain code language computer is written as FNPOXSHQ. What is the code for the word PRACTICE
A. SRIBULFD
B. ORICULFD
C. SQDBWHFD
D. OPLAUIDF
2. If HOTEL can be given the code 12 and EAR can 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.

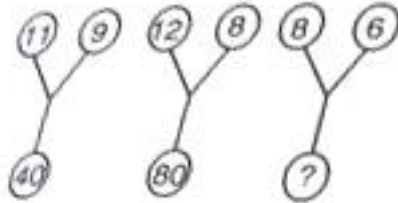
3. 1,3,10,21,64,129,358
A. 129
B. 21
C. 356
D. 64
4. 66,68,72,80,94,128
A. 94
B. 68
C. 80
D. 72
5. Find out the odd one
A. Ptd
B. Grk
C. Noc
D. Jlc

Direction : in each of the ques 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 ques.

6. a _ m _ b _ _ mcb _ _ mcb
A. bacbab
B. bcabab
C. abcabc
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 angle 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

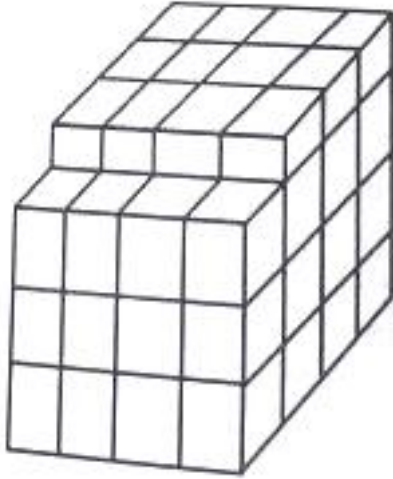
$$5 \times 3 \times 6 = 23$$

$$4 \times 8 \times 7 = 60 \text{ then}$$

$$6 \times 3 \times 7 = ?$$

- 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 cubes have three faces coloured?



- A. 1
- B. 6
- C. 8
- D. 10

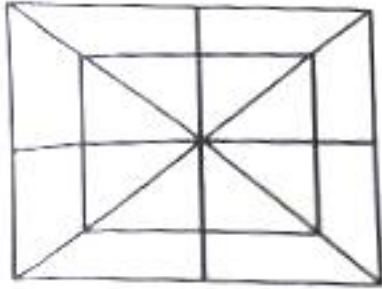
16. Three of the following group of elements are alike in a certain way and do form a group. Which is the one that doesn't belong to the group?

- 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 precedes the symbol or the value of 1 if is not immediately preceded by any numeral, what will be the sum of the value of the first 1- elements of the series starting from the extreme left?

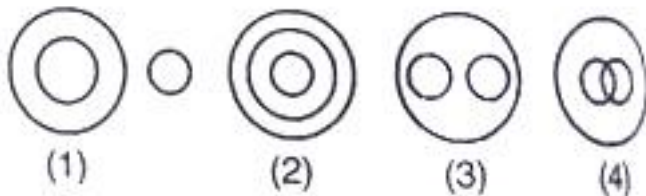
- A. 141
- B. 153
- C. 132
- D. 126

Direction: ques (18- 19) are based on the following fig.



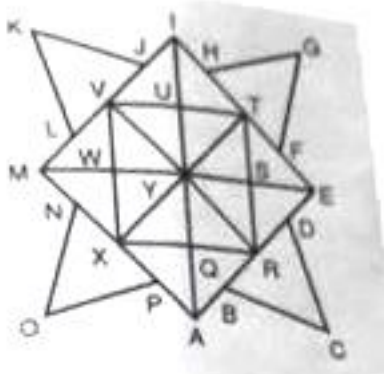
18. How many rectangles are there in the fig. given above ?
- A. 11
 - B. 8
 - C. 18
 - D. 12
19. How many triangles are there in the given fig?
- A. 28
 - B. 32
 - C. 30
 - D. 26
20. This qus consists of two words that have a certain relationship with each other. Select the option pair which has the 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 among 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 ?
- PXN
 - APX
 - WXQ
 - MYA
24. VWST : XAR ; : ? : RET
- WSRX
 - QRTU
 - XQUV
 - RSWS
25. IQR : AUV :: MSR?
- XYQ
 - BCD
 - RSE
 - 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 ?
- 23
 - 25
 - 20
 - 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
- 6
 - 4
 - 5
 - 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 ?
- Read
 - Draw
 - Black
 - 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
- $$2 + 5 - 3 \times 4 / 4 = 2 + 3 \times 12 - 4$$
- 2 and 3, '+' and 'x'
 - 2 and 4, '+' and 'x'
 - 2 and 4, '+' and '+'
 - 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?
- 8 km
 - 15km
 - 12km
 - 10km

Direction : question (31 -32)

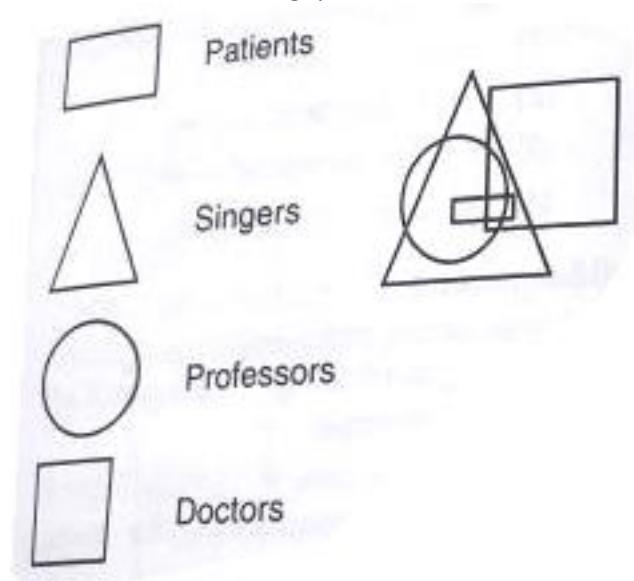
A – B Means ' A is the daughter of B'

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 preofessors
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 and answer the question given.

Anand has five books. P, Q, R, S and T each of the different weight.

P weight twice as much as Q

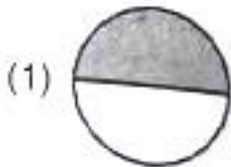
Q weight 3 and half times as much as R

R weight half as much as S

S weight half as much as T

T weight less than P but more than R

36. S is heavier in weight than which of the following books
- A. R
 - B. P
 - C. Q
 - D. T
37. Which of the following represents the descending order of the weights 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 participate 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 be formed when fig A is folded

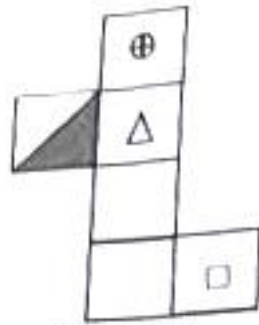
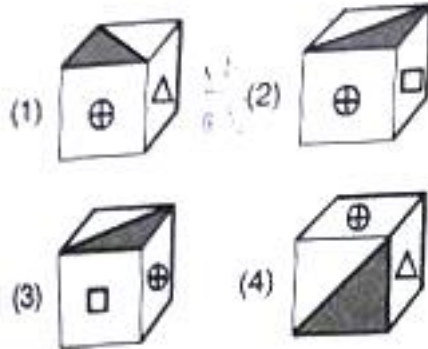


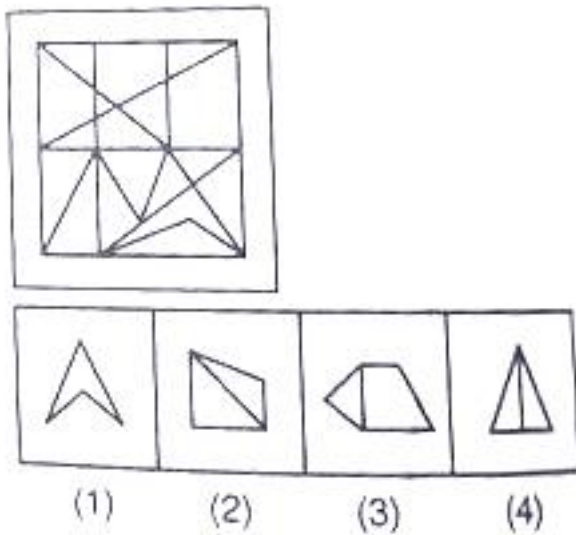
Figure (A)



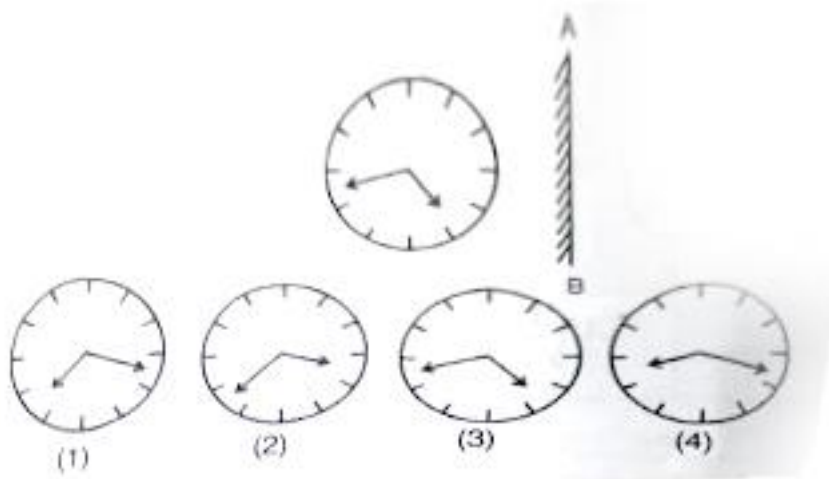
40. If March 15, 2006 was a Wednesday, what day of the week is April 10, 2010?

- A. Monday
- B. Wednesday
- C. Saturday
- D. Sunday

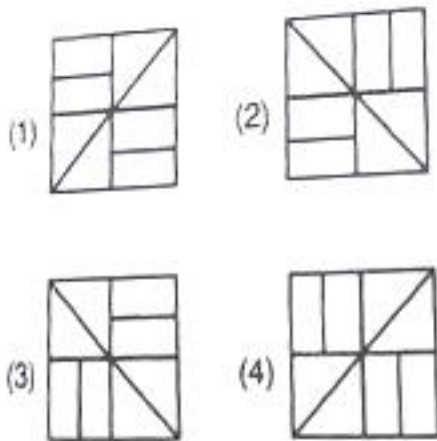
41. Select the options which is embedded in the given fig. ?



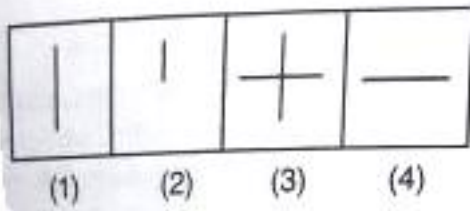
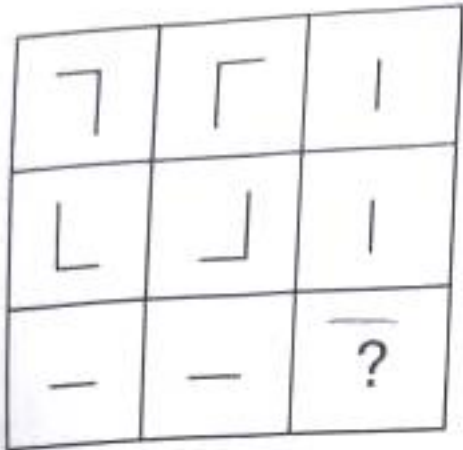
42. Which of the options is the mirror image of the given fig when the mirror is held at the AB position?



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

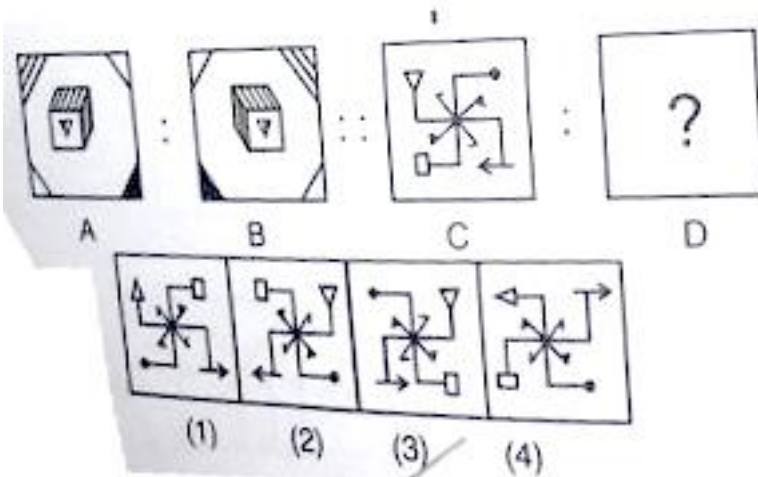


44. Choose the correct alternative from amongst the options which completes the fig matrix

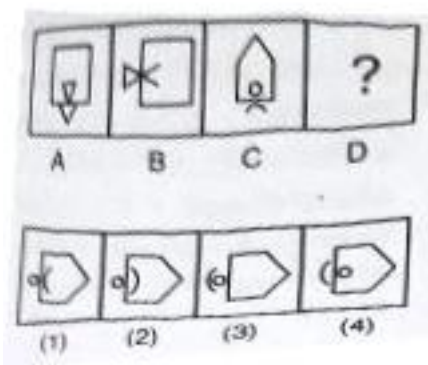


Directions: questions (45- 46) there is a relationship between fig A and B. find the figure which establishes a similar relationship between C and D.

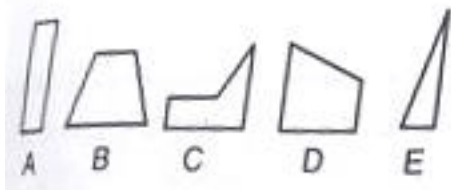
45.



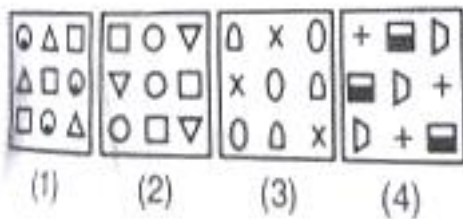
46.



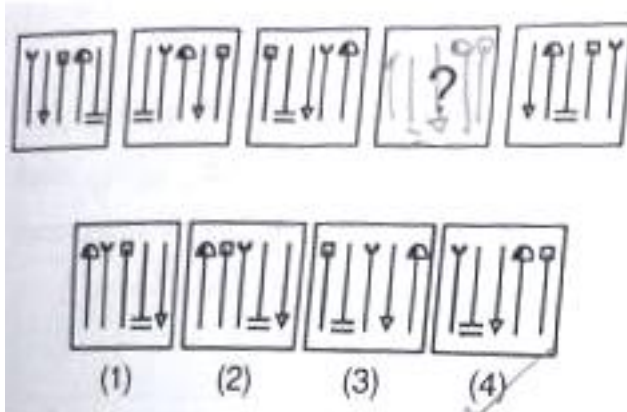
47. Select three out of following five alternative fig A, B, C, D, E which together form a complete square



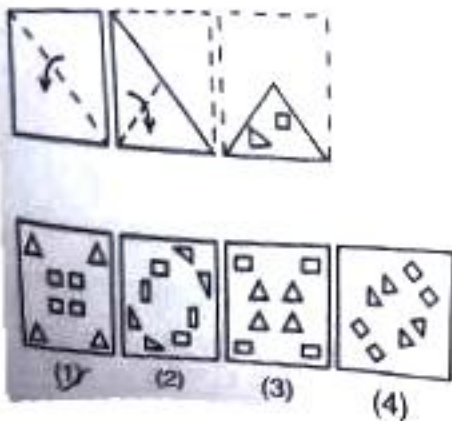
- A. ACD
 B. CDE
 C. ABC
 D. BCE
48. Find the odd one out



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