Ramanujan Olympiad

by AATMDEEP VIDYALAYA

आत्मदीपो भव

Affiliated to CBSE, INDIA

Time	**: 1 Hour & 30 Min.**
Maximum Marks	**: 90**
Total Number of Questions	**: 30**

CLASS-IV

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

GENERAL INSTRUCTIONS

1. The question paper consists of **30 Objective Type Questions.**
2. For each question you will be **awarded 3 marks** if you mark tick sign ☑ in the box infront of most appropriate answer.
3. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form are not allowed.
4. All rough work should be done only in the extra blank papers provided by the invigilator with the question paper.

NAME OF THE CANDIDATE

ROLL NUMBER

Sign. of Student : _____ **Sign. of Invigilator : _____**

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1. There are four figures out of which three are same in some way while one is different from the rest. Find out the different figure. **Class-IV**

(A) ☐ (B) ☐ (C) ☐ (D) ☐

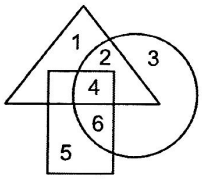
2. The number of straight lines in the given figure is

(A) 17 ☐ (B) 18 ☐ (C) 19 ☐ (D) 20 ☐

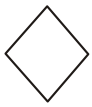
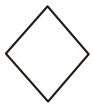
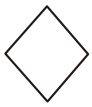
3. If in a certain code "MONKEY" is coded as "YEKNOM", then how is "MONIKA" coded in that language?

(A) KANIMO ☐ (B) AKINOM ☐ (C) NOMIKA ☐ (D) AIKONIM ☐

4. Which number lies in all the three figures?



(A) 1 ☐ (B) 2 ☐ (C) 4 ☐ (D) 5 ☐

5. If  × 4 = and -  = 330, then +  =

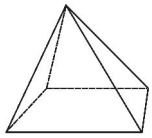
(A) 110 ☐ (B) 440 ☐ (C) 550 ☐ (D) 990 ☐

6. Mohit went for swimming at 2:30 p.m. and returned back home $3\frac{1}{2}$ hours later. The time he came back home is _____ .

(A) ☐ (B) ☐

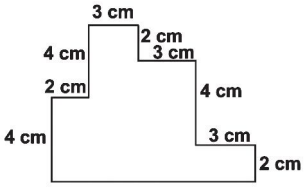
(C) ☐ (D) ☐

7. How many vertices does this pyramid have? **Class-IV**



(A) 4 ☐ (B) 5 ☐ (C) 6 ☐ (D) 8 ☐

8. The perimeter of the given figure (not drawn to scale) is _____ .



(A) 35 cm ☐ (B) 27 cm ☐ (C) 38 cm ☐ (D) 42 cm ☐

9. Ram, Rahul and Rohit shared a bag containing marbles. The bag contained 272 marbles. How many marbles were left over after the friends shared them equally?

(A) 90 ☐ (B) 91 ☐ (C) 6 ☐ (D) 2 ☐

10. Find the value of $\frac{P-Q+R}{S}$.

(A) 3 ☐

(B) 4 ☐

(C) 6 ☐

(D) 7 ☐

```
      1[P]19
38) 72954 (
    -38
     349
    -3[Q]2
       75
      -38
      3[R]4
     -342
       [S]2
```

11. After buying 3 pencils at ₹12 each, Ramkrishnan has ₹ 7 left. How much amount did he have at first?

(A) ₹ 45 ☐ (B) ₹43 ☐ (C) ₹ 42 ☐ (D) ₹ 46 ☐

12. If the letters of the English alphabet are written in order, what will be the letter at the 9th place on right of the letter H?

(A) S ☐ (B) Q ☐ (C) O ☐ (D) R ☐

13. Find the missing time in the pattern.
07:00, 07:20, 08:00, 08:20, 08:40.

(A) 08:10 ☐ (B) 07:40 ☐ (C) 07:30 ☐ (D) 07:50 ☐

14. I am a 4-digit number. Sum of my digits is 28. My thousands digit is twice of my ten's digit. Who am I?

(A) 8947 ☐ (B) 6835 ☐ (C) 4687 ☐ (D) 3869 ☐

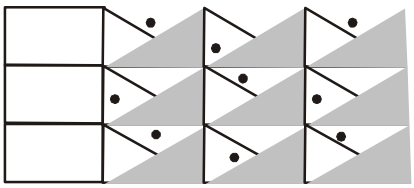
15. The sixth multiple of a number is the quotient of 378 and 9. What is the number? **Class-IV**

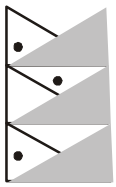
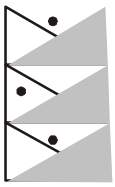
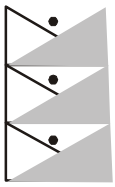
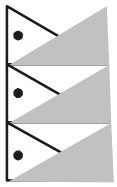
(A) 9 ☐ (B) 6 ☐ (C) 8 ☐ (D) 7 ☐

16. Four small squares of sides 5cm are cut from each of the corners of a big square with side 20 cm. The permieter of remaining figure is _____ .

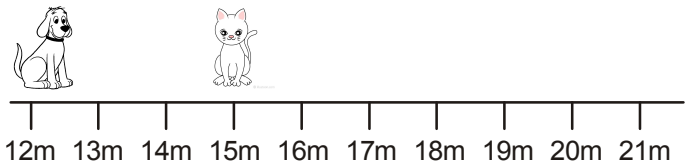
(A) 80 m ☐ (B) 8 m ☐ (C) 80 cm ☐ (D) 8 cm ☐

17. Ria arranges tiles on the floor as shown below. Which column of tiles is missing from Ria's floor?



(A)  ☐ (B)  ☐ (C)  ☐ (D)  ☐

18. A dog is chasing a cat.



I. The dog starts at 12 m and jumps 3 m every time.
II. The cat starts at 15 m and jumps 2 m every time .
If they both start at the same time , after how many jumps the dog would reach the cat?

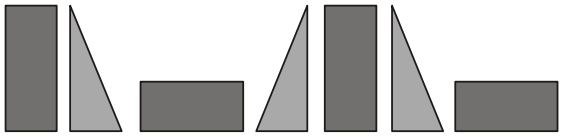
(A) After 2 jumps ☐ (B) After 3 jumps ☐

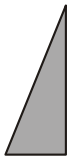
(C) After 5 jumps ☐ (D) After 4 jumps ☐

19. We know that a square has 4 corners. Find number of corners in the given shape.

(A) 8 ☐ (B)15 ☐ (C) 14 ☐ (D) 7 ☐

20. Which is the next figure in the sequence shown below? **Class-IV**



(A) (B) (C) (D) 

21. A man walks 3 km towards south and then turns to the right. After walking 5 km he turns to the left and walks 4 km. In which direction is he from starting point?

(A) West (B) South (C) North-east (D) South-west

22. Which pair of numbers best completes the equation?

$\square \div 100 = \bigcirc$

(A) 95 and 950 (B) 9500 and 95

(C) 905 and 9500 (D) 950 and 9005

23. What number should come next in the pattern?
14, 42, 70, 98, 126, ?

(A) 217 (B) 210 (C) 126 (D) 154

24. P is greater than Q.
R is greater than P.
Q is greater than R.
If the first two statements are true, the third statements is _____ .

(A) True (B) False (C) Uncertain (D) None of these

25. Arrange the following fractions in descending order.

$\frac{4}{7}, \frac{4}{15}, \frac{4}{21}, \frac{4}{3}, \frac{4}{5}$

(A) $\frac{4}{7}, \frac{4}{15}, \frac{4}{21}, \frac{4}{3}, \frac{4}{5}$ (B) $\frac{4}{15}, \frac{4}{7}, \frac{4}{21}, \frac{4}{3}, \frac{4}{5}$

(C) $\frac{4}{3}, \frac{4}{5}, \frac{4}{7}, \frac{4}{15}, \frac{4}{21}$ (D) $\frac{4}{7}, \frac{4}{15}, \frac{4}{21}, \frac{4}{5}, \frac{4}{3}$

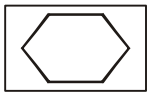
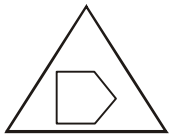
26. Complete the following pattern 5, 17, 53, 161, ..., ...

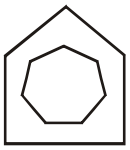
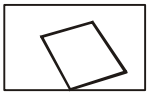
(A) 483 & 1457 (B) 483 & 1455 (C) 485 & 1455 (D) 485 & 1457

27. $\frac{5}{13} - \square = 2$, which one of following should be kept in box so that the relation becomes true.

(A) $\frac{21}{4}$ ☐ (B) $\frac{-21}{13}$ ☐ (C) $\frac{5}{13}$ ☐ (D) $\frac{10}{13}$ ☐

28. Which of following is different from other three

(A)  ☐ (B)  ☐

(C)  ☐ (D)  ☐

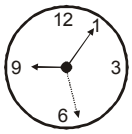
29. What will be the best option which will make the answer of each calculation an even number.

[5] × [A] , [12] ÷ [B] , [9] + [C]

(A) A = 4, B = 3, C = 5 ☐ (B) A = 3, B = 5, C = 4 ☐

(C) A = 5, B = 3, C = 4 ☐ (D) None of these ☐

30. What is the difference of the time shown in the following watches?



(A) 30 minutes ☐ (B) 5 minutes ☐

(C) 25 minutes ☐ (D) None of these ☐

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