ANANDALAYA
PERIODIC TEST 2
Class : VI

Subject: Mathematics   M.M: 50
Date   : 23 - 09- 2024   Time: 2Hr

General Instructions:
 i) This question paper contains 24 questions.
ii) This question paper is divided into 4 sections – A, B, C and D.
iii) In Section-A, Questions 1 – 9 are multiple choice questions (MCQ) each of 1 mark.
iv) In Section-B, Questions 10 – 16 are very short-answer type questions carrying 2 marks each.
 v) In Section-C, Questions 17 – 21 are short -answer type questions carrying 3 marks each.
vi) In Section D, Question 22 – 24 are long answer type questions carrying 4 marks each.
vii) There is no overall choice. However, an internal choice has been provided in 3 questions in
     Section-B, 2 questions in Section-C and 1 question in Section- D.

SECTION-A

1. The predecessor of 1 lakh is _____ (1)
    (A) 99000   (B) 99999   (C) 999999   (D) 100001

2. What is the number of whole numbers between 38 and 68? (1)
    (A) 31   (B) 30   (C) 29   (D) 28

3. Every whole number has its predecessor in the set of whole numbers. (1)
    (A) True   (B) False

4. _____ has two end points and has a fixed length. (1)
    (A) Line   (B) Line segment   (C) Ray   (D) Curve

5. In the adjoining figure, the angle made by the rays $\overrightarrow{OP}$ and $\overrightarrow{OR}$ is _____. (1)

    (A) ∠ROP   (B) ∠ROQ   (C) ∠POQ   (D) ∠RPO

6. Which type of curve is shown in the figure? (1)

    (A) Simple closed curve   (B) Open curve
    (C) Polygon   (D) Not a simple closed curve

7. Name the triangle where, ∠X =30°, ∠Y =125° and ∠Z =25°. (1)
    (A) Acute angled triangle   (B) Obtuse angled triangle
    (C) Right angled triangle   (D) Isosceles triangle

8. Which of the following situations could be best represented by – 25? (1)
    (A) An increase of 25 points.
    (B) Planting a seed 25cm below the ground.
    (C) An elevation of 25m above the sea level.
    (D) 25 years from now.
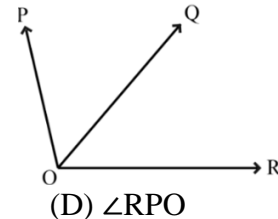
9. M.G Road and Tagore Road never meet at all. They are equidistant from each other. Which term (1) best describes these two roads?

(A) Intersecting   (B) Perpendicular   (C) Parallel   (D) None of these

SECTION-B

10. Satish has ` 78, 592 with him. He placed an order for purchasing 39 radio sets at ` 1234 each. (2) How much money will remain with him after the purchase?

OR

A factory has a container filled with 3584 litres of cold drink. In how many bottles of 200 ml capacity each can it be filled?

11. There was a Magic show in SP auditorium on Saturday with full capacity. The total collection (2) of the ticket sale was ` 73,500. Each ticket costs ` 50. There were 30 people admitted as special invitees; hence they did not have to buy the tickets. Find the seating capacity of the auditorium.

12. Determine the sum of the numbers given below: (2)
    a) Successor of the smallest 3-digit number.
    b) Predecessor of 998.

OR

In a pair of identical bouquets, the florist placed 39 roses and 11 daisies in each. How many flowers did she use in all?

13. Draw a number line to show $12 - 7$. (2)

14. Observe the attributes of the given triangles carefully and write the name for each of the triangles (2) looking at both the attributes.

(a) 3cm, 5cm, 4cm, 90°

(b) 7cm, 7cm, 5cm, 70°
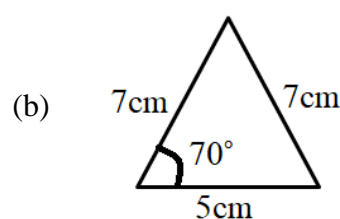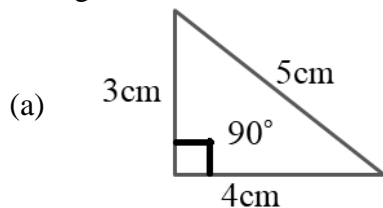
15. A submarine is at a depth of 8m below the sea level, a diver at a depth of 5m below the sea level (2) and a helicopter is at a height of 100m above the sea level. Which one is in between the other two? Write each distance in terms of an integer and arrange those integers in increasing order.

16. The numbers a, b and c are integers between -3 and 3. The integers a and c are negative-integers (2) and a < c; b≠0 and b < 2. Write the value of the integers a, b and c.

OR

The following were the scores of Red House in five rounds of an Inter House Quiz Competition: $-10, +5, -4, -3, +15$. What was the final score?

SECTION-C

17 Write 1075302 in words in Indian and in international system of numeration. Also rearrange (3) the digits to get the smallest and the largest 8-digit numbers.

OR

A garment factory sold goods worth eight lakh twenty-three thousand five hundred six rupees in the month of April. The sale for the first two weeks were ₹2,03,456 and ₹1,93,234. What was the sale of the last two weeks?

18. A man had ` 98,78,560 in his bank. He withdrew ` 48,36,980 in the month of January, ` 3,95,648 (3) in the month of February and ₹45,000 in the month of March. What is the amount remaining in his bank by the end of March?

19. Find the LCM 80, 96, and 160. (3)

OR

Find the HCF of 70, 105 and 175.

20. 135 rosogullas, 90 laddoos and 75 pieces of burfees have been made in a sweet shop. The (3) shopkeeper packs each variety separately in boxes. The number of items in each box is the same. If he is able to pack all the above items in full packets to be sold, what is the greatest number of items he can put in a box?

21. Answering the following questions:
    a) What fraction of the revolution the hour hand of the clock turns through when it goes from: (3)
       i) 4 to 7   ii) 8 to 2
    b) Where will the hand of the clock stop if it starts at:
       i) 5 and makes $\frac{1}{4}$ revolution.   ii) 6 and makes $\frac{3}{4}$ revolution
    c) Which direction will you face if you start facing:
       i) East and make $\frac{1}{2}$ revolution clockwise.
   ii) East and make $\frac{3}{4}$ revolution anti-clockwise.

SECTION-D

22. A) Find the least number, which when divided by 20, 30 and 40 leaves a remainder of 7 (4) in each case.
    B) Without actual division show that 34,680 is divisible by 15.

OR

In a school library, there are 780 books of English and 364 books of Science. Ms. Yogini, the librarian of the school wants to store these books in the shelves such that each shelf should have the same number of books of each subject. What should be the maximum number of books on each shelf?

23. Observe the pentagon ABCDE given here and answer the (4) following questions:
    a) Name the adjacent sides of $\overline{AB}$.
    b) Name two non adjacent angles of ∠E.
    c) What type of angles are ∠AED and ∠BCD?
    d) Draw any two diagonals and name them.
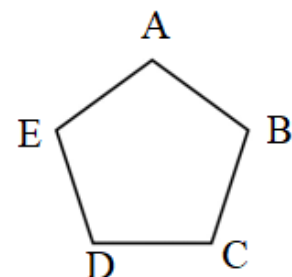
24. Simplify the following: (4)
    a) $-31 + 96$.
    b) $-33 + (-155)$.
    c) $-225 - (-14)$.
    d) $-120 - 32$.