विद्या सर्वार्थि साधिका

ANANDALAYA

PERIODIC TEST - 2

Class : VI

Subject: Mathematics M.M: 50

Date : 26-09-2023 Time: 2 hours

General Instructions:

i) All questions are compulsory.

ii) This question paper contains 24questions.

iii) Question no. 1 – 9 in Section A are multiple choice type questions carrying 1 mark each.

iv) Question no. 10 – 16 in Section B are short-answer type questions carrying 2 marks each.

v) Question no. 17 – 21 in Section C are short -answer type questions carrying 3 marks each.

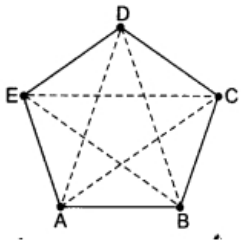
vi) Question no. 22 – 24 in Section D are long-answer type questions carrying 4 marks each.

SECTION - A

1. Every positive integer is greater than _____. (1)
(A) 0 (B) -1 (C) -2 (D) All of these

2. The smallest whole number is _____. (1)
(A) 0 (B) 1 (C) 1000 (D) None of these

3. How many diagonals are there in the adjoining figure? (1)
(A) 4 (C) 6
(B) 5 (D) 7

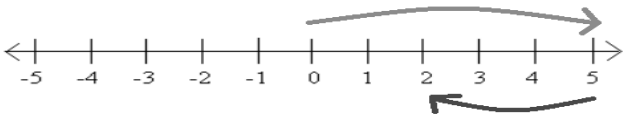


4. The measure of reflex angle is _____. (1)
(A) exactly 180°
(B) is lesser than 180° and greater than 90°
(C) is greater than 180° and lesser than 360°
(D) is lesser than 90°

5. The successor of the greatest 4-digit number is _____. (1)
(A)10000 (B) 99999 (C) 9991 (D) 10100

6. Read the following statements: (1)
i) If the product of two whole numbers is zero then one number will be zero.
ii) If the product of two whole numbers is zero then both numbers will be zero.
(A) Both are false
(B) Both are true
(C) Only i is true
(D) Only ii is true

7. Which of the following equation is correct for the adjoining number line? (1)
(A) 5 + (-3)
(B) 5 - 3
(C) Both (A) and (B) are correct
(D) None of these



8. The sum of the odd prime number between 1 to 10 is _____. (1)
(A) 17 (B) 12 (C) 13 (D) 15

9. The additive inverse of -11 is _____. (1)
(A) 10 (B) 11 (C) 1 (D) -10

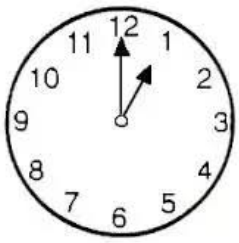
SECTION - B

10. (a) Write the greatest and smallest prime number between 60 and 70. (2)
(b) Express 36 as sum of two primes.

11. The mass of a gas cylinder is 14 kg 250 g. Find the total mass of 20 such cylinders. (2)

12. Find common factors of 6, 9 and 15. (2)

13. a) A car wheel makes ten complete turns. Find the number of right angles it makes. (2)
b) Find the measure of the angle formed between the hour hand and the minute hand shown in the adjoining figure.



14. a) Indicate the following by '+' or '-' sign : (2)
i) Gaining a weight of 10 kg
ii) 200 m below sea level
b) Write opposite of the following:
i) 50 km towards south
ii) 5°C above zero

15. Fill in the blank: (2)
a) Rectangle is a _____ curve.
b) _____ line(s) can be drawn through two distinct points.
c) A closed figure made up of entirely of line segments is called a _____.
d) A curve which does not cross itself is called a _____ curve.

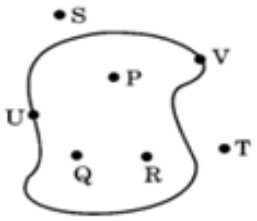
16. Subtract the successor of -90 from the predecessor of 100. (2)

SECTION - C

17. During Maths lab activity, each student was given four broom sticks of length 8 cm, 8 cm, 5 cm and 5 cm to make different types of quadrilaterals. (3)
a) Draw the rough sketches of all possible quadrilaterals.
b) Name the types of the quadrilaterals formed.
c) Mansi lost one broomstick of 5 cm, so she made a triangle from the remaining broom sticks. Draw a rough sketch of the triangle that she made. Name the triangle.

18. A merchant has 120 litres of cottonseed oil, 180 litres groundnut oil and 240 litres of coconut oil. He wants to sell by filling the three kinds of oil in tins of equal capacity. What should be the greatest capacity of the tin? (3)

19. Identify the points which are: (3)
(i) in the interior
(ii) in the exterior
(iii) on the closed curve in the given figure.



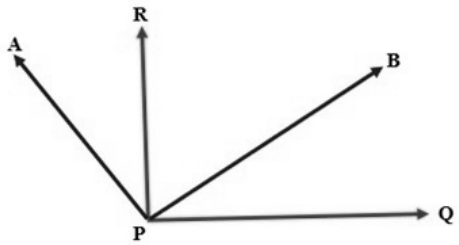
20. Simplify: (3)
a) (-5) + (-16) + 20 + (-26)
b) 48 + (-75)

21. Represent the following on number line: (3)
a) 3 + 4
b) 6 – 2
c) 2 × 4

SECTION - D

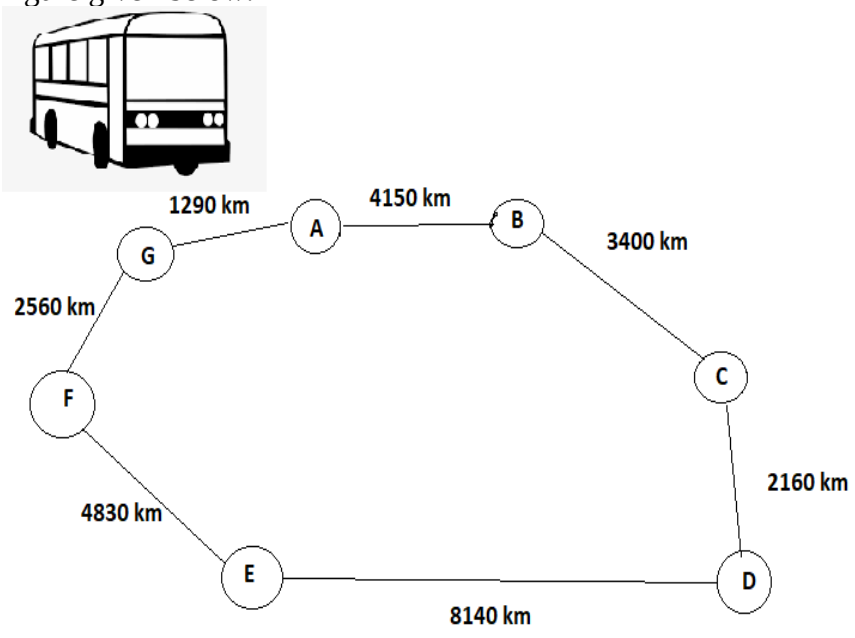
22. a) Draw two line segments AB and CD of lengths 2.5 cm and 3.2 cm respectively. Draw another line segment EF, whose length is the sum of these two line segments. (4)

b) From the adjoining figure find the two right angles and name them.



23. a) Which direction will you face if you start facing west and make three-fourth of a revolution anti clockwise? (4)
b) What part of revolution have you turned through if you stand facing east and turn clockwise to face north?
c) Where will the hand of the clock stop if it starts at 12 and makes half a revolution clockwise?
d) Find the number of right angles turned through by the hour hand of a clock when it goes from 5 to 11.

24. A bus started its journey and reached different places. It travels 50 km / hour. The journey is shown in the figure given below. (4)



a) Find the total distance covered by the bus from A to C.
b) Find the sum of distance from E to F and C to D.
c) Find the longest and the shortest distance covered between two consecutive places and find their difference.
d) How much time will the train take to reach place B from A?