FIRST TERM SUMMATIVE EXAMINATION - 2024

Standard - VII

Time: 2.00 hrs   **MATHEMATICS**   **Marks:60**

5x1=5

I Choose the correct answer:

1. (-10) + (+7) = _____
   a) +3   b) -3   c) -17   d) +17

2. The area of a parallelogram whose base 10m and height 7m is
   a) 70 sq.m   b) 35 sq.m   c) 7 sq.m   d) 10 sq.m

3. The numerical co - efficient of -7 mn is
   a) 7   b) -7   c) P   d) -P

4. The sum of all angles at a point is
   a) 360°   b) 180°   c) 90°   d) 0°

5. If the cost of 3 books is Rs.90, then find the cost of 12 books
   a) Rs.300   b) Rs.320   c) Rs.360   d) Rs.400

II Fill in the blanks

5x1=5

6. -44+ _____ = -88

7. The angel between the diagonals of a rhombus is _____.

8. The additive inverse of -37xyz is _____

9. If the cost of 8 apples is Rs.56 then the cost of 12 apples is _____

10. A line which intersects two or more lines in different points is known as _____

III Match the following

5x1=5

11. 0 x 75   -   bh

12. Area of the Trapezium   -   3

13. Area of the parallelogram   -   90°

14. x + 5 = 8   -   0

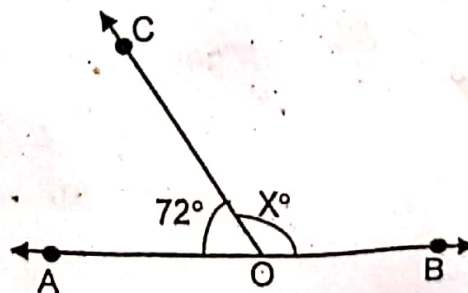15. Right angle   - $\frac{1}{2}$ x h (a+b)

IV True or False

5x1=5

16. $(-64) \div (-64) = 0$

17. If x is a natural number, then x+1 is its predecessor.

18. Area of rhombus is bh sq.units.

19. A tetromino is a shape obtained by 4 squares together.

20. An angle whose measure is exactly 180° is called a straight angle.

V Answer any Ten questions:-

10x2=20

21. Add the following (-3) and (-5) using number line.

22. Find the product of $(-2) \times (+50) \times (-25) \times 4$

23. The product of two integers is -135. If one number is -15, Find the other integer.

24. One of the sides and the corresponding height of the parallelogram are 12m and 8m respectively. Find the area of the parallelogram.

25. The area of a rhombus is 160sq.cm and the length of one of its diagonals is 8cm. Find the length of the other diagonal.

26. Find the area of the trapezium whose height is 14cm and the parallel sides are 18cm and 9cm of length.

27. If x=2 and y=3 then find the value of the following expressions i) x+y ii) x+1-y

28. Subtract (m+n) from (3m-7n)

29. A dozen bananas cost Rs.20, what is the price of 48 bananas?

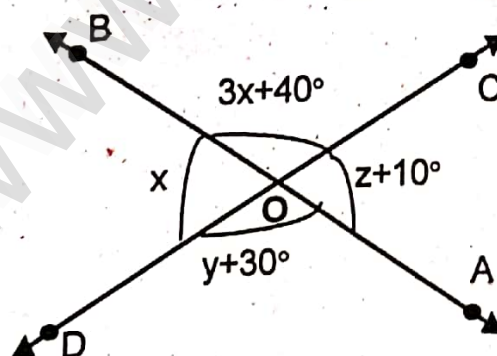30. Given that AB is a straight line. Calculate the value of x° in the following case.

31. Mention two real - life situations where we use parallel lines.

32. If 30 men can reap a field in 15 days, then in how many days can 20 men reap the same field.

33. Draw a testromino which passes symmetry.

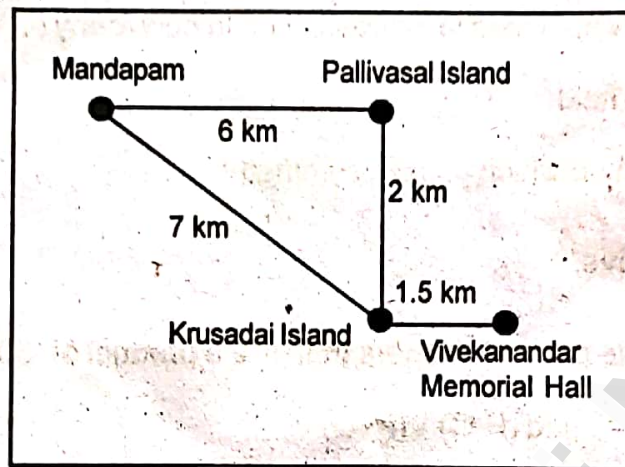**VI Answer any five**   **5x3=15**

34. Find all possible pairs of integers that give a product of -50

35. If $P=-15$ and $Q=5$ find $(P-Q) \div (P+Q)$

36. The area of a trapezium is 1080sq.cm. If the length of its parallel sides are 55.6cm and 34.4 cm find the distance between them.

37. What should be added to $3x+6y$ to get $5x+8y$?

38. If the cost of 7kg of onions is Rs.84. Find the following.

    (i) Weight of the onions bought for Rs.180.

    (ii) The cost of 3kg of onions.

39. Find the value of x, y and z.

40. Find the shortest route to Vivekandar Memorial Hall from the Mandapam using the given map.

VII Answer any one of the following: 1x5=5

41. a) Draw a line segment of AB=8cm and construct a perpendicular bisector.

(OR)

b) Construct bisector of the ∠ABC with the measure 80°.

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