FIRST TERM SUMMATIVE EXAMINATION - 2024

QL 7 - Std

MATHS

Time : 2.00 Hrs

Marks : 60

I   **Choose the correct answer.**   5 X 1 = 5

1.   (−5) - (−18) = ...
     a) 23   b) −13   c) 13   d) −23

2.   (−200) ÷ 10 = ...
     a) 20   b) −20   c) −190   d) 210

3.   The Area of the Rhombus when both diagonals measuring 8cm is
     a) 64 sq.cm   b) 32 sq.cm   c) 30 sq.cm   d) 16 sq.cm

4.   Choose the pair of like terms
     a) 7P, 7x   b) 7r, 7x   c) −4x, 4   d) −4x, 7x

5.   The solution of 3x + 5 = x + 9 is   a) 2   b) 3   c) 5   d) 4

II **Say true or false.**   5 x 1 = 5

6.   15 − (−18) and 15 + 8 are equal.

7.   (−64) ÷ (−64) = 0

8.   The coefficient of ab in 15abc is 15

9.   Every algebraic expression is an equation.

10. The formation of four squares formed by joining edge to edge are called 'Tetrominoes'.

III **Fill in the blanks.**   5 x 1 = 5

11. −10 x ⬜ = 20.

12. The integer .... is the additive identity for integers.

13. The variable in the expression 16x − 7 is ....

14. The additive inverse of −37xyz is ....

15. Area of a parallelogram is .... sq.units.

IV **Match the following.**   5 x 1 = 5

16. Multiplicative identify   -   Equal

17. Supplementary angle   -   100cm

18. Trapezium   -   1

19. Vertically opposite angles   - $\frac{1}{2}h(a+b)$ sq.units

20. 1 metre   -   120°

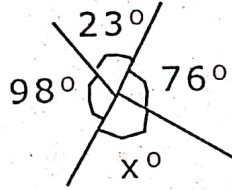**V**   **Answer any 10 questions.**   10 x 2 = 20

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

22. Find the value of 96 x (-20).

23. Add : −9y, 11y, 2y.

24. Solve : $\frac{m}{6}=5$,

25. Calculate the area of the rhombus having diagonal equal to 6m and 8m.

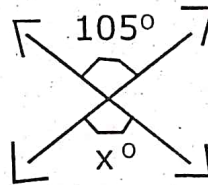26. Find the numerical coefficient of each term, -3yx, 12k, y, 121 bc, −x, 9pq, 2ab.

QL 7 - Maths EM Page 1

27. Subtract 7pq from 11 pq.
28. A dozen bananas cost Rs. 20, what is the price of 48 bananas?
29. How many (−4) are there in (−20)?

30. [diagram: $46°$ $x°$]   Find the missing angle .

31. Find the value of $x°$.   [diagram: $23°$, $98°$, $76°$, $x°$]

32. Solve : P − 3 = 7.
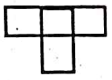
33. Find the missing angle   [diagram: $105°$, $x°$]

34. Which of the pair of adjacent angles will make a linear pair?
    (i) $89°$, $91°$ (ii) $117°$, $62°$
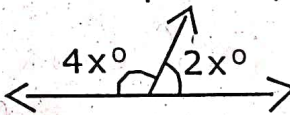
35. Complete the table.   [diagrams of shapes]   5 x 3 = 15

VI   Answer any 5 of the following questions.
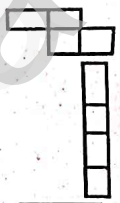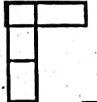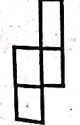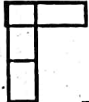
36. Find the product of (−9) x (−8) x (−7) X (−6).
37. Add : 7p + 6q, 5p − q, q + 16p.
38. Subtract 5x + 7 from 21x + 9.
39. If the area of the Rhombus is 60sq.cm and one of the diagonals is 8cm. Find the length of the other diagonal.
40. Find the height 'h' of the parallelogram whose area and base are 368 sq.cm and 23cm respectively.

41. [diagram: $4x°$ $2x°$] Calculate the value of '$x°$'.   [diagram: $2x-15$]

42. Find the value of 'x'.   [diagram: $3x+20$]
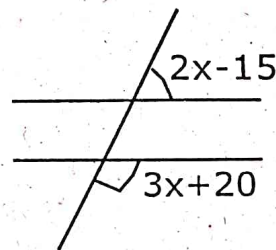
43. Match Tetramines of the same type.

    i)   −   [shape diagrams]

    ii)   −

    iii)   −

    iv)   −

VII   Answer any one of the following.   1 x 5 = 5

44. Construct the angle $120°$ using ruler and compass only.
45. Construct an angle of $90°$ using protractor and draw a bisector to each using ruler and compass.

                                        QL 7 - Maths EM Page 2