FIRST TERM SUMMATIVE EXAMINATION - 2022

7 - Std   **MATHS**

Time : 2.00 Hrs   Marks : 60

PART - A

I   Choose the correct answer.   10 X 1 = 10

1. $(-8) + 10 + (-2) =$
     a) 2   b) 8   c) 0   d) 20

2.   Which of the following expression is equal to -30
     a) $-20 - (-50 \times 2)$ b) $(6 \times 10) - (6 \times 5)$
     c) $(2 \times 5) + (4 \times 5)$ d) $(-6) \times (+5)$

3.   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

4.   The height of the rhombus whose are 90 sq. m and side 25m is
     a) 8 m   b) 10 m   c) 2 m   d) 4 m

5.   The numerical co - efficient of $-7mn$ is   a) 7   b) -7 c) p   d) $-p$

6.   When we subtract 'a' - from 'a' we get ....
     a) 0   b) 2a   c) $-2a$ d) $-a$

7.   The equation $y + 1 = 0$ is true only when y is
     a) 0   b) -1 c) 1   d) -2

8.   35 cycles were produced is 5 days by a company then .... cycles will be produced is 21 days
     a) 150   b) 70   c) 100   d) 147

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

10. $(-100) - 0 + 100 =$ ....   a) 200 b) 0   c) 100 d) -200

II   Fill in the blanks.   10 X 1 = 10

11. $-70 + 20 = \square$ -10.

12. The variables in the expression $16 x -7$ is ....

13. The additive inverse of (-32) is ....

14. If a = 5 the value of $2a + 5$ is ....

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

16. Sum of $a - b + c$ and $-a + b + c$ is ....

17. The sum of all the angles formed at a point on a straight line is ....

18. $-44 + ---- = -88$

19. In the expressions $25m + 14n$, the types of the terms are .... terms.

20. If 40 workers can do a project work in 8 days, then .... workers can do it in 4 days.

PART - B

Answer any 10 questions.

21. Add 8 and -12 using number line.   10 X 2 = 20

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22. Find the product of $-15 \times 13 \times (-7)$.
23. Find the area of the parallelogram whose base is 16cm and length is 6cm.
24. Geetha has Rs. 150 she wanted to buy a bag which cost 275. How much money does she need to borrow from her friend?
25. Find the area of a trapezium whose parallel sides are 24cm and 20cm and the distance between them is 15cm.
26. Subtract : $11x + 8y - 3$ from $29x + 4y - 40$.
27. Identify th terms among the following. $7x$, $5y$, $-6x$, $9y$, $4z$, $2z$, $-9x$, $-7y$, $10z$
28. If 7 children shared 28 pencils equally then how many pencils we required for 20 children?
29. Solve : $12x + 10 = 70$
30. A form has enough food for 144 hens for 28 days. If the sells 32 hens how many will be food last?
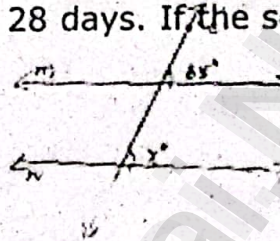
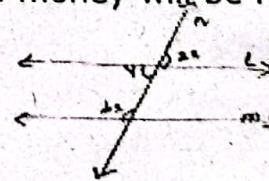31. Find the measure of angle.
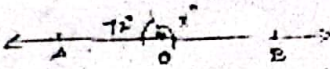
32.   Given that AB is a straight line. Calculate the value of $x°$.

33. The area of a rhombus is 100sq.cm and length of one of its diagonals is 8 cm find the length of the other diagonal.

PART - C

Answer any 5 questions.   **5 X 3 = 15**

34. Show that $[(-6) \times 4) \times (-3) = (-6) \times [4 \times (-3)]$.
35. A ground is in a the shape of parallelogram. The height of the parallelogram is 20 metres and the corresponding base is 6 metres longest than its height. Find the cost of levelling the ground at the rate of Rs. per square.
36. Simplify : $(3x + 2y - z) + (6x - 5y + 7z) - (14x + 7y - 6z)$.
37. If $x = 2$, $y = 3$ then find the value of the expression.
    (i) $(3x + 4y)$ (ii) $-y + 5x$
38. Sheela bought 4 notebooks for Rs. 32. How much money will be needed to buy 10 such notebooks?

39. If l is parallel to m. Find the measure of x and y.

40. A postman can sort out 838 letters in 6 hours. How many letters can be sorted in 9 hours?

PART - D

IV   Answer any one from the following.   **1 X 5 = 5**
41. Construct a perpendicular bisector of the line segment AB = 9cm.
42. Construct the angle 90° using ruler and compass only.

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