SRI KURINJI VIDHYALAYA MATRICULATION HIGHER SECONDARY SCHOOL, AZHAGAPPASAMUTHIRAM
MODEL I TERM – SUMMATIVE ASSESSMENT(SA) – 2024 -25

CLASS   : 7   TIME   : 2.00 Hours
SUBJECT: MATHEMATICS   MARKS : 60

PART-1

I. CHOOSE THE CORRECT ANSWER: 10x1=10

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

2. Which property is illustrated by equation. (5 * 2) + (5 * 5) = 5(2 + 5)
   a) Commutative   b) Closure   c) distributive   d) Associative

3. The set of integers is not closed under.
   a) Addition   b) Subtraction   c) Multiplication   d) Division

4. The area of a parallelogram
   a) b x h sq. units   b) l x b sq. units   c) $\frac{1}{2}$ x d_1x d_2 sq. units   d) S x S sq. units

5. When the non-parallel sides of a trapezium are equal then it is known as _____
   a) square   b) an Isosceles trapezium   c) a rectangle   d) a parallelogram

6. The numerical coefficient of -7mn is
   a) 7   b) -7   c) P   d) -P

7. In an expression, we can add or subtract only_____
   a) like terms   b) Unlike terms   c) All terms   d) None of the above

8. The generalization of the number pattern 3, 6, 9, 12, _____
   a) n   b) 2n   c) 3n   d) 4n

9. If the cost of 3 books is 7.90, then the find the cost of 12 books.
   a) ₹.300   b) ₹.320   c) ₹.360   d) ₹.400

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

II. Fill in the Blanks.   5x1=5

11. _____ x 75 = 0.
12. The additive inverse of -37xyz is _____
13. A straight angle measures _____
14. _____ is a line that intersect two lines at distinct points.
15. A tetromino is a shape obtained by _____ squares together.

III. Match the following.   5x1-5

16. Area of a rhombus   -   a) xy
17. Area of a trapezium   -   b) X/y
18. Direct proportion   -   c) Commutative property
19. Inverse proportion   -   d) 1/2 * d_1*d_2 sq. units
20. (-15) + 7 = 7 + (-15)   -   e) 1/2 x h x (a + b) sq. units
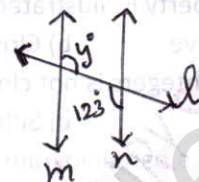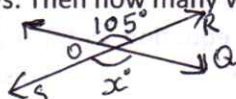
PART - II

IV. Answer any 10 questions, Q.No.35 is Compulsory.   10x2-20

21. Add 10 and (-15) by using number line.
22. A submarine is at 300 ft below the sea level. If it ascends to 175ft, what is its new position?
23. Find the product of (-10) x 12 x (-9).

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24. If 168 x 32 = 5376 then, find (-5376) + (-32).
25. Find the height 'h 'of the parallelogram whose side is 17 cm and height is 8 cm.
26. Find the area of the rhombus whose side is 17 cm and height are 18 cm.
27. Write the variables and terms: 7p – 4q + x.
28. If x = 2 and y = 3 then find the value of 4y – x.
29. Subtract: m + n from 3m – 7n.
30. Solve: x + 5 =8
31. A dozen bananas cost ₹.20. What is the prize of 48 bananas.
32. If 40 workers can do a project work in 8 days. Then how many workers can do the same work in 4 days?
33. Find the value of x⁰. From the given figure.
34. Find the measure of angle y⁰. From the given figure.
35. Draw a tetromino which passes symmetry. (or)
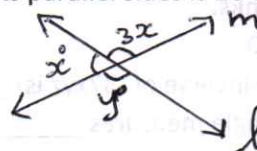   Add: 5xyz – 3xy, 3 zxy – 5 yx.

PART - III
V. Answer any 5 of the following questions, Q. No. 43 is compulsory

36. Are 3 x [-4 + 6] and [3 x (- 4)] + [3 x 6] equal? Mention the property.
37. If P = -15 and Q = 5 find (P – Q) ÷ (P + Q).
38. The base of parallelogram is 16 cm and the height are 7 cm less than its base. Find the area of the parallelogram.
39. Find two consecutive odd numbers whose sum is 200.
40. It takes 120 minutes to weed a garden with 6 gardeners. If the same workers is to be done in 30 minutes, how many more gardeners are needed?
41. A car travels 90 km in 2 hours 30 minutes. How much time is required to cover 210 km?
42. If the three angles at a point are in the ratio 1:4:7. Find the value of each angle.
43. The area of a trapezium is 1586 cm². The distance between its parallel sides is 26 cm. If one of the parallel sides is 84 cm then, find the other side.

(OR)

Find the angles x⁰ and y⁰ in the figure shown.

PART-IV

VI. Answer the following
44. Construct a perpendicular bisector of the line segment AB= 7cm.

(OR)

Construct an angle without using protractor ABC = 120⁰.

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