— மாதிரி —

COMMON SECOND TERM SUMMATIVE EXAMINATION - 2024

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Standard VI

Reg.No.

MATHEMATICS

16/12/24

Time : 2.00 hrs **Part - I** *Marks : 60*

I. Choose the correct answer: 5 x 1 = 5

1. Which of the following numbers is not prime?
   a) 53 b) 92 c) 97 d) 71
2. 9 m 4 cm is equal to
   a) 94 cm b) 904 cm c) 9.4 cm d) 0.94 cm
3. $2^1/_2$ years is equal to _____ months.
   a) 25 b) 30 c) 24 d) 5
4. The sum of three angles of a triangle is _____
   a) 90° b) 100° c) 180° d) 60°
5. Which of the following pairs is co-prime?
   a) 51, 63 b) 52, 91 c) 71, 81 d) 81, 99

II. Fill in the blanks. 5 x 1 = 5

6. The number of prime numbers between 11 and 60 is _____.
7. the LCM of 26, 39 and 52 is _____.
8. 50 kg ÷ 100 g = _____.
9. Discount = M.P – _____.
10. In an isosceles triangle _____ angles are equal.

III. Say True or False. 5 x 1 = 5

11. If a number is divisible by 6, then it must be divisible by 3
12. The HCF of 17 and 18 is 1
13. Meena bought 250 ml of buttermilk which is equal to 2.5 l
14. Discount is subtracted from marked price to get selling price.
15. A triangle in which none of the sides equal is called an equilateral triangle.

IV. Match the following. 5 x 1 = 5

16. Leap year - Equilateral triangle
17. 04.15 - 90°
18. 1 km - Quarter past 4
19. All sides are equal - Divisible by 4
20. Right angle - 1000 m

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

21. Find the prime factorisation by division method : –60
22. Is 173 a prime? Why?
23. The LCM of two numbers is 432 and their HCF is 36 . If one of the numbers is 108, then find the other number.

24. Convert 4 km and 300 m into m
25. Subtract : 12 hours 18 minutes – 10 hours 20 minutes
26. Convert 20 minutes into seconds.
27. A table is bought for ₹4500 and sold for ₹4800. Find the profit or loss.
28. Can a triangle be formed with 8 cm, 6 cm and 4 cm as its sides?
29. Two angles of the triangle are 80°, 60°. Find the third angle.
30. Convert into a Tree diagram : (9 x 5) + (10 x 12)
31. Convert the following Tree diagrams into Algebraic expressions.

i) 

ii) 

32. Muthu has a car worth ₹8,50,000 and he wants to sell it at a profit of ₹25,000. What should be the selling price of the car?

VI. Answer any 5 questions. **5 x 3 = 15**

33. Find the prime factorisation of each number by Factor tree method.
    i) 128 ii) 144
34. Find the HCF and LCM of the numbers 154, 198 and 286
35. Compare and put > (or) < (or) = in the following.
    i) 800 g + 150 g ☐ 1 kg
    ii) 600 ml + 400 ml ☐ 1 *l*
    iii) 55 g ☐ 550 mg
36. Find the number of days between the Republic day and Kalvi Valarchi day in 2020.
37. Name the types of following triangles based on its angles.
    i) 60°, 60°, 60°
    ii) 90°, 55°, 35°
    iii) 100°, 50°, 30°
38. Wheat is being sold at ₹1550 per bag of 25 kg at a profit of ₹150. Find the cost price of the wheat bag.
39. Convert the following algebraic expressions into tree diagrams.
    i) 10 V ii) 3a – b

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

40. Draw a line segment AB = 7 cm and mark a point P on it. Draw a line perpendicular to the given line segment at P.

(OR)

41. Draw a line and mark a point R at a distance of 4.8 cm above the line. Through R draw a line parallel to the given line.

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