COMMON THIRD SUMMATIVE EXAMINATION - 2023

C

Standard VII   Reg.No. ☐☐☐☐☐☐

MATHS

Time : 2.00 hrs   **Marks : 60**

I. Choose the best answer: 10 x 1 = 10

1. 1.0 + 0.83 = _____.
   a) 0.17   b) 0.71   c) 1.83   d) 1.38

2. 5.6 ÷ 0.5 = _____.
   a) 11.4   b) 10.4   c) 0.14   d) 11.2

3. The percentage of 4.7 is _____.
   a) 0.47%   b) 4.7%   c) 47%   d) 470%

4. The interest for a principle of ₹4500 which gives an amount of ₹5,000 at end of certain period is _____.
   a) ₹500   b) ₹200   c) 20%   d) 15%

5. If $a + b = 5$ and $a^2 + b^2 = 13$, then $ab = ?$
   a) 12   b) 6   c) 5   d) 13

6. The solutions of the inequation $3 \leq P \leq 6$ are (where P is a natural number)
   a) 4, 5 and 6   b) 3,4 and 5   c) 4 and 5   d) 3,4,5 and 6

7. A _____ is a flip over a line.
   a) translation   b) rotation   c) reflection   d) glide reflection

8. The mean of first fifteen even numbers is _____.
   a) 4   b) 16   c) 5   d) 10

9. Find the mode of data 3,6,9,12,15
   a) 1   b) 2   c) 3   d) no mode

10. The median of the data 24, 29, 34, 38, 35 and 30 is _____.
    a) 29   b) 30   c) 34   d) 32

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

11. 2.08 x 10 = __20.8__.

12. The decimal form of 58% is __0.58__

13. (1.9) x (2.1) = __3.99__

14. The mode of the data 2,1,1,3,4,5,2 is __1, 2__.

15. The median of first 6 odd natural numbers is __6__.

III. Match the following.   5 x 1 = 5

16. 0.51 + 0.25   40 — 5
17. Simple Interest   Width of circular ring — 4
18. (P + 2) (P − 2)   0.76 ——— 1
19. $r_1 - r_2$ $P^2 - 4$ ——— 3
20. Average of 30 and 50 $\dfrac{Pnr}{100}$ — 2

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(2)   **VII Maths**

IV. Answer any seven questions.   7 x 2 = 14

21. Subtract 6.567 from 9.231 using place value grid.

22. Find the product of 62.2 x 0.23 = 14.306

23. Write $\frac{36}{50}$ as percentage. = $\frac{36}{50} \times \frac{2}{2} = \frac{72}{100} = 0.72$

24. Write the percentage 120% as decimal. = $\frac{120}{100} = \frac{12}{10} = 1.2$

25. Simplify (x + 3) (x + 5) using identity.

26. Expand $(b - 7)^2 = b^2 + 7^2 - 2 \times b \times 7 = b^2 - 14b + 49$

27. The mean of 9 observations is 24. Find the sum of the 9 observations.

28. Find the median of 25,16,15,10,8,30 = 8, 10 $\boxed{15, 16}$ 25, 30 . Med = 15.5

29. Find the mode of 2,5,5,1,3,2,2,1,3,5 and 3. 1,1, 2,2,2, 3,3,5,5,5, Mode = 2,3,5

30. What are the types of flow chart?

V. Answer any seven questions.   7 x 3 = 21

31. Find the perimeter of an equilateral triangle with a side measuring 3.8 cm.

32. A wheel of a baby cycle covers 49.7 cm in one rotation. Find the distance covered in 10 rotations.

33. The cost of 28 books are ₹1,506.4. Find the cost of one book.

34. Ranjith's total income was ₹7,500. He saved 25% of his total income. Find the amount saved by him.

35. In a village 70.5% people are literate. Express it as a decimal.

36. In what time will ₹5,600 amount to ₹6,720 at 6% per annum?

37. Find the product of (4x + 3y) (4x + 5y) using the identity.

38. Factorise $y^2 + 20y + 100$

39. If the mean of the numbers is 38. Find the value of x.
    48, x, 37, 38, 36, 27, 35, 34, 38, 49, 33

40. Find the median of the 10 observations 36, 33, 45, 28, 39, 45, 54, 23, 56, 25. If another observation 35 is added to the above data, what would be the new median?

VI. Answer any one.   1 x 5 = 5

41. a) Draw the circle of radius r = 4 cm.

    (OR)

    b) Draw concentric circles for the following measurements :
       r = 3 cm and r = 5 cm.

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