Class : 7

Register Number

THIRD TERM - SUMMATIVE ASSESSMENT(SA) -2024-25

MATHEMATICS

[Max. Marks :60

Time Allowed : 2.00 Hours]

PART - I

10x1=10

I. Choose the correct Answer.

1. 7.0 - 2.83 = ?
   a) 3.47　　　b) 4.17　　　c) 7.34　　　d) 4.73

2. 2.08 x 10 = ―――――
   a) 20.8　　　b) 208.0　　　c) 0.208　　　d) 280.0

3. Kavin scored 15 out of 25 in a test. The percentage of his marks is
   a) 60%　　　b) 15%　　　c) 25%　　　d) $\frac{15}{25}$

4. The interest for a principal of ₹ 4500 which gives an amount of ₹ 5000 at end of certain period is ―――――
   a) ₹ 500　　　b) ₹ 200　　　c) 20%　　　d) 15%

5. The common factors of the algebraic expressions ax^2y, bxy^2 and $cxyz$ is
   a) x^2y　　　b) xy^2　　　c) xyz　　　d) xy

6. The solution 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 turn about a point
   a) Translation　　　b) Rotation　　　c) Reflection　　　d) Glide Reflection

8. ――――― is a representative value of the entire data
   a) Mean　　　b) range　　　c) minimum value　　　d) maximum value

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

10. If the median of a, 2a, 4a, 6a, 9a is 8, then find the value of a is ―――――
    a) 8　　　b) 6　　　c) 2　　　d) 10

II. Fill in the blanks:

5x1=5

11. 1.07 x 0.1 = ―――――

12. 0.85 = ――――― %.

13. Express ab^2 as product of its factors is ―――――

14. $(a+b)^2$ = ―――――.

15. The mean of first ten natural numbers is ―――――

III. Match the following:

5x1=5

16. Simple Interest　　　-　　　Middle value

17. $a^2 - b^2$　　　-　　　Yes or No

18. Width of the circular ring　　　-　　　$\frac{Pnr}{100}$

19. Median　　　-　　　(a + b) (a - b)
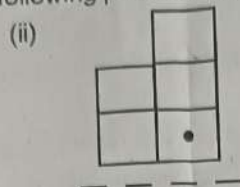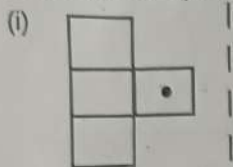
20.　　　-　　　$r_2 - r_1$

PART - II

10x2=20

IV. Answer any 10 questions.

21. Round each of the following decimals to the nearest whole number.
    i) 1.23　　　ii) 8.71

22. Add the following by using place value grid.
    i) 25.8 + 18.53

23. How much is 35.6 km less than 53.7km.

24. Find the value of the following: (i) 2.57 x 1000　　　(ii) 27.4 ÷ 100

25. Divide : 19.2 ÷ 2.4.

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26. Convert the following decimal as percentage: (i) 0.282 (ii) 1.51
27. Write each of the following percentage as fraction (i) 21% (ii) 151%
28. Express the following as the product of its factors: $24ab^2c^2$.
29. A T-shirt bought for ₹ 110 is sold at ₹ 90. Find the loss percentage?
30. Factorise: $z^2 - 16$.
31. Solve $x \leq 7$ where x is a natural number.
32. Factorise: $x^2 - 8x + 16$.
33. Find the mode of the following data. 2, 4, 5, 2, 6, 7, 2, 7, 5, 4, 8, 6, 10, 3, 2, 4, 2.
34. Find the Median of the given data 35, 25, 34, 36, 45, 18, 28.
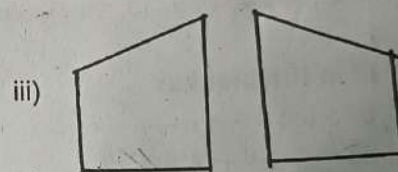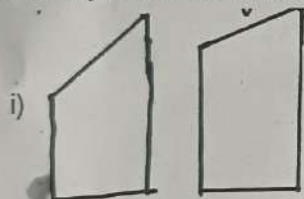35. Reflect the shape in each of the following pictures with given line of reflection.

(i) 　　(ii)

PART - III　　　　　　　　　　　　5x3=15
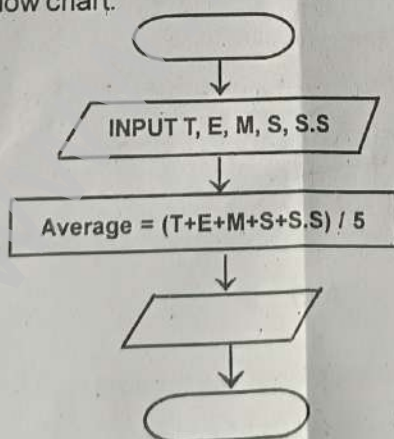
V.　Answer any 5 of the following questions.

36. Simplify: 23.5 - 27.89 + 35.4 -17.
37. Write each of the following fractions as percentage (i) $\dfrac{36}{50}$ (ii) $2\dfrac{1}{4}$
38. There are 50 students in a class. If 14% are absent on a particular day. Find the number of students present in the class.
39. Find the simple interest on ₹35,000 at 9% per annum for 2 years?
40. Evaluate by using suitable identity : 103^2.
41. Identify the transformation.

i) 　　ii) 　　iii)

42. The marks of 14 students in a science text out of 50 are given below.
34, 23, 10, 45, 44, 47, 35, 37, 41, 30, 28, 32, 45, 39.
Find (i) The mean mark (ii) The maximum mark obtained (iii) The minimum mark obtained

43. Complete the following flow chart.

PART - IV

VI. Answer any one of the following.　　　　　　　　1x5=5

44.　Draw a circle of radius 4 cm.

(OR)

45.　Draw a concentric circle with radii 3 cm and 5 cm. Find the width of the circular ring

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