COMMON THIRD MID-TERM TEST - 2023

Standard VII

Reg.No. 7 2 4 2 [ ] [ ]

MATHS

Time: 1.30 hours **Marks: 50**

Part - A

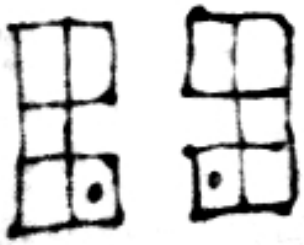
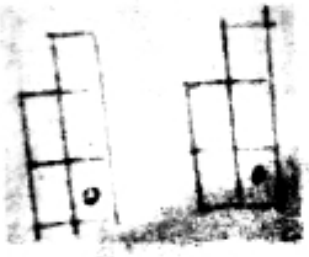
I. Choose the correct answer: **10 x 1 = 10**

1. 1.0 + 0.83 = ?
   a) 0.17 b) 0.71 c) 1.83 d) 1.38
2. 2.08 x 10 = _____.
   a) 20.8 b) 208.0 c) 0.208 d) 280.0
3. 0.05 ÷ 0.5 = ?
   a) 0.01 b) 0.1 c) 0.10 d) 1.0
4. 0.07% is
   a) $\frac{7}{10}$ b) $\frac{7}{100}$ c) $\frac{7}{1000}$ d) $\frac{7}{10,000}$
5. The percentage of 0.005 is
   a) 0.005% b) 5% c) 0.5% d) 0.05%
6. The common factors of the algebraic expressions ax^2y, bxy^2 and $cxyz$ is
   a) x^2y b) xy^2 c) xyz d) xy
7. The solutions of the equation $3 \leq p \leq 6$ 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
8. Linear inequation has almost _____ solution
   a) one b) two c) three d) many
9. A _____ is a turn about a point.
   a) translation b) rotation c) reflection d) glide reflection
10. A _____ is a flip over a line.
    a) translation b) rotation c) reflection d) glide reflection

Part - B

II. Answer (any 5) of the following : **5 x 2 = 10**

11. Round each of the following decimals to the nearest whole number: i) 8.71 ii) 101.35
12. Add the following by using place value grid : 25.8 + 18.53
13. Write the percentage into fraction : i) 60% ii) $\frac{15}{10}$ %
14. Convert the decimal as percentage : 1.51
15. Express the algebraic expressions as the product of its factors : $36x^3y^2z$
16. Solve $2x + 4 < 18$, where x is natural number
17. Describe the transformation involved in the following pair of figures. Write translation, reflection or rotation

i)  ii)  iii) 

Part - B

III. Answer (any 5) of the following : 5 x 4 = 20

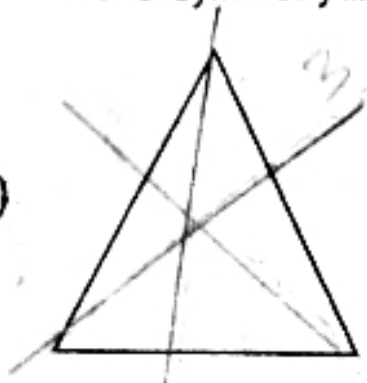
18. Simplify : 23.5 – 27.89 + 35.4 – 17
19. Find the product of the following : (i) 0.03 x 9 (ii) 34.51 x 100
20. Simplify : (i) 49.3 ÷ 1000 (ii) 19.2 ÷ 2.4
21. Iniyan bought 5 dozen eggs. Out of that 5 dozen eggs, 10 eggs are rotten. Express the number of good eggs as percentage.
22. Find the simple interest on ₹25,000 at 8% per annum for 3 years.
23. Using the identity $(x + a)(x + b) = x^2 + x(a + b) + ab$, find the product $(x + 3)(x + 7)$
24. Factorise : $4x^2 - 9y^2$

Part - D

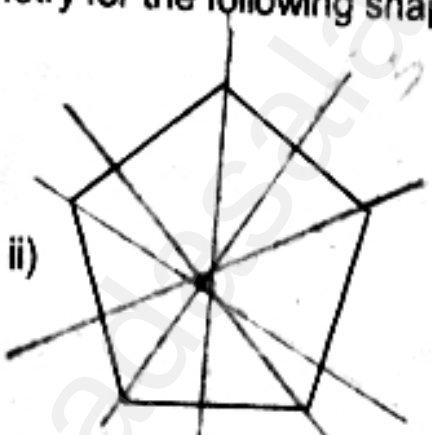
IV. answer (any 2) of the following : 5 x 2 = 10

25. Draw all possible lines of symmetry for the following shapes and also mention the number of symmetry lines.

i)

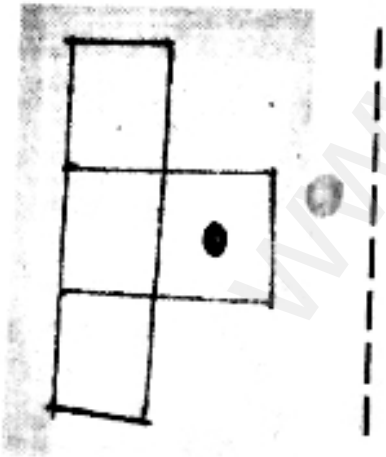


ii)

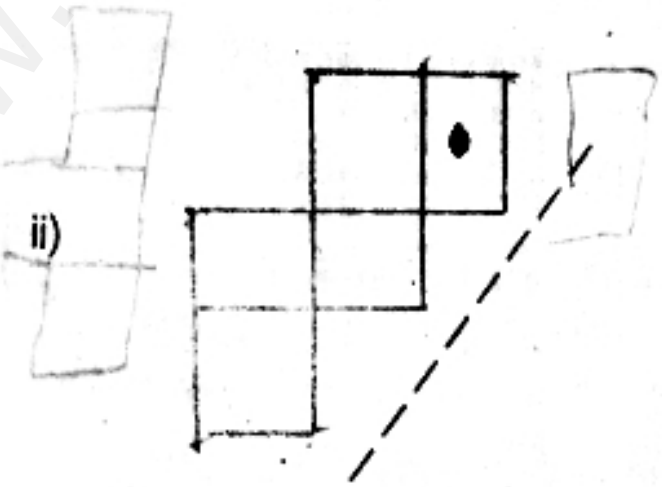


26. Reflect the shape in each of the following pictures with given line of reflection.

i)



ii)



27. Draw the circle of radius, r = 4 cm

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