

## THIRD TERM SUMMATIVE EXAM - 2024

Standard VII  
MATHEMATICSReg.No. 

Marks: 60

5 x 1 = 5

**B**

Time: 2.00 hrs.

I. Choose the correct answer.

- $1.0 + 0.83 = ?$   
a) 0.17                      b) 0.71                      c) 1.83                      d) 1.38
- 0.07% is  
a)  $\frac{7}{10}$                       b)  $\frac{7}{100}$                       c)  $\frac{7}{1000}$                       d)  $\frac{7}{10000}$
- $(5+20)(-20-5) =$   
a) -425                      b) 375                      c) -625                      d) 0
- The median first 6 odd natural number is \_\_\_\_\_  
a) 6                      b) 7                      c) 8                      d) 14
- A \_\_\_\_\_ is a turn about a point.  
a) translation                      b) rotation                      c) reflection                      d) glide reflection

5 x 1 = 5

II. Fill in the blanks.

- $(p - q)^2 =$  \_\_\_\_\_.
- The factors of  $x^2 - 4x + 4$  are \_\_\_\_\_.
- The mean of first ten natural numbers is \_\_\_\_\_.
- The average of integers between -10 to 10 is \_\_\_\_\_.
- The median of the data 12, 14, 23, 25, 34, 11, 42, 45, 32, 22, 44 is \_\_\_\_\_.

5 x 1 = 5

III. Match the following.

- $(a + b)^2$  - 11.2
- Simple interest -  $(x - 3)(x - 3)$
- $z^2 - 16$  -  $\frac{Pnr}{100}$
- Factors of  $x^2 - 6x + 9$  -  $a^2 + 2ab + b^2$
- $5.6 \div 0.5$  -  $(z + 4)(z - 4)$

5 x 1 = 5

IV. Say True or False.

- $(7x + 3)(7x - 4) = 49x^2 - 7x - 12$
- $(a - 1)^2 = a^2 - 1$
- 2p is the factor of 8pq
- Linear in equation has almost one solution.
- $x < -y$  can be rewritten as  $-y < x$

10 × 2 = 20

**V. Write any 10 of the following.**

21. Round the following decimal number upto one place of decimal : 123.37
22. Find the product :  $0.5 \times 3$
23. Simplify :  $4.08 \div 4$
24. Write the following fraction as percentage :  $\frac{36}{50}$
25. Simplify :  $(a + b)^2 - 4ab$
26. Find the mode of the following data : 2, 4, 5, 2, 6, 7, 2, 7, 5, 4, 8, 6, 10, 3, 2, 4, 2
27. Find the median of 25, 16, 15, 10, 8, 30
28. Find the area of the parallelogram whose base is 6.8 cm and height is 3.5 cm.
29. Solve the following in equation :  $x \leq 7$ , where x is a natural number
30. Find the solution of the in equation  $3 \leq P \leq 6$
31. Kavin scored 15 out of 25 in a test. Find the percentage of his marks.
32. Write the following percentage as decimal : 151 %
33. Simplify :  $18.9 \div 1000$

**VI. Write any 5 of the following.**

5 × 3 = 15

34. Add the following by using place value grid :  $25.8 + 18.53$
35. Simplify :  $23.5 - 27.89 + 35.4 - 17$
36. Find the perimeter of an equilateral triangle with a side measuring 3.8 cm
37. Iniyam bought 5 dozen eggs. Out of that 10 eggs are rotten. Express the number of good eggs as percentage.
38. Show that  $(m - n)^2 + (m + n)^2 = 2(m^2 + n^2)$
39. Solve the following in equation and represent the solution on the number line :  
 $k > -5$ , k is an integer
40. Find the mean of the following data :  
5.1, 4.8, 4.3, 4.5, 5.1, 4.7, 4.5, 5.2, 5.4, 5.8, 4.3, 5.6, 5.2, 5.5
41. Find the median of the 10 observations.  
36, 33, 45, 28, 39, 45, 54, 23, 56, 25

**VII. Answer any one of the following.**

1 × 5 = 5

42. a) Draw concentric circles for the following measurements of radii. And also find out the width of each circular ring.  
 $r_1 = 3$  cm and  $r_2 = 5$  cm  
(OR)
- b)  $r_1 = 5$  cm and  $r_2 = 7.5$  cm

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