

# THIRD TERM SUMMATIVE EXAM – 2024

## Standard VI

### MATHEMATICS

B

Marks: 60

5 x 1 = 5

Time: 2.00 hrs.

I. Choose the correct answer.

1. The difference between  $\frac{3}{7}$  and  $\frac{2}{9}$  is \_\_\_\_\_.

a)  $\frac{13}{63}$

b)  $\frac{1}{9}$

c)  $\frac{1}{7}$

d)  $\frac{9}{16}$

2. The number which determines marking the position of any number to its opposite on a number line is \_\_\_\_\_.

a) -1

b) 0

c) 1

d) 10


3. If two identical rectangles of perimeter 30 cm are joined together, then the perimeter of the new shape will be \_\_\_\_\_.

a) equal to 60 cm

b) less than 60 cm

c) greater than 60 cm

d) equal to 45 cm

4. The order of rotational symmetry of  is \_\_\_\_\_.

a) 5

b) 6

c) 7

d) 8

5. If the HCF of 26 and 54 is 2, then HCF of 54 and 28 is \_\_\_\_\_.

a) 26

b) 2

c) 54

d) 1

II. Fill in the blanks.

5 x 1 = 5

6. The number which has its own reciprocal is \_\_\_\_\_.

7. \_\_\_\_\_ is an integer which is neither positive nor negative.

8.  $18 \text{ m}^2 = \text{_____ cm}^2$ .

9. \_\_\_\_\_ symmetry occurs when an object slides to new position.

10. In this sequence 15, 17, 20, 22, 25, \_\_\_\_\_ what comes next?

III. Say True or False.

5 x 1 = 5

11. The sum of any two proper fractions is always an improper fraction.

12. All whole numbers are integers.

13. A combined shape is the combination of several closed shapes.

14. The reflection of the name RANI is IANIR.

15. 1, 3, 4, 7, 11, 18, 29, ..... is the the Lucas sequence.

## IV. Match the following.

16.  $\frac{3}{7} + \frac{2}{3}$  - Two lines of symmetry  
 17. Area of right-angled triangle - 1, 1, 2, 3, 5, 8, 13, .....  
 18. Rectangle - 0  
 19. The first non-negative integer -  $\frac{23}{21}$   
 20. Fibonacci sequence -  $\frac{1}{2} \times b \times h$  sq.units

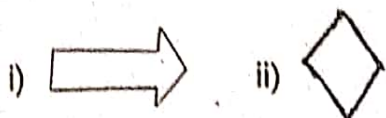
## V. Answer any ten from the following questions.

21. Add:  $3\frac{2}{4} + 7\frac{2}{5}$   
 22. Find the difference between  $\frac{8}{9}$  and  $\frac{2}{7}$   
 23. Convert into mixed fractions:  $\frac{99}{7}$   
 24. Divide:  $4\frac{1}{5} \div 3\frac{3}{4}$   
 25. Multiply:  $\frac{3}{8} \times \frac{4}{5}$   
 26. On the number line which number is 4 units to the right of -7?  
 27. Find the opposite of the following numbers: i) 44 ii) -19 iii) 0 iv) -789  
 28. Suppose in a building, there are 2 leasement.floors. If the ground floor is denoted as zero, how can we represent the leasement floors?  
 29. The side of a square is 5 cm: Find its perimeter.  
 30. Find the perimeter and the area of the rectangle whose length is 6 m and breadth is 4 m.  
 31. Find the perimeter of a scalene triangle with the sides 7 m, 8 m, 10 m  
 32. Define Symmetry.  
 33. Find next three numbers in the following number patterns.  
 i) 10, 20, 40, 80, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_



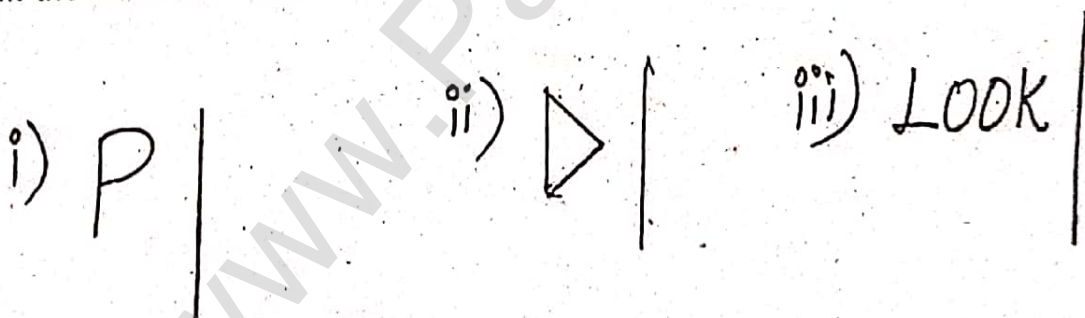
ii)  $\frac{21}{33}$ ,  $\frac{321}{444}$ ,  $\frac{4321}{5555}$ , \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

34. Find the HCF of 25 and 35 by Euclid's game.  
 35. Draw the lines of symmetry for the given figures and also find number of lines of symmetry.



VI. Answer any five from the following.

36. Nilavan can walk  $4\frac{1}{2}$  km in an hour. How much distance will he cover in  $3\frac{1}{2}$  hours?  $5 \times 3 = 15$   
 37. From his office, a person wants to reach his house on foot which is at a distance of  $5\frac{3}{4}$  km. If he had walked  $2\frac{1}{2}$  km, how much distance still he has to walk to reach his house?  
 38. Arrange the following integers in ascending order:  
 $-100, 10, -1000, 100, 0, -1, 1000, 1, -10$   
 39. Find the integers that are 4 units to the left 0 and 2 units to the right of  $-3$ .  
 40. Find the area of a right angled triangle whose base is 18 cm and height is 12 cm.  
 41. Draw the reflection image of the following figures about the given line.



42. Draw the lines of symmetry for the shapes equilateral triangle and square. Also, find the number of lines of symmetry.

43. Fill in the blanks.

i)  $2 \text{ cm}^2 = \underline{\hspace{2cm}} \text{ m.m}^2$

ii)  $78 \text{ m}^2 = \underline{\hspace{2cm}} \text{ cm}^2$

iii)  $5 \text{ k.m}^2 = \underline{\hspace{2cm}} \text{ m}^2$

VII. Answer any one from the following questions.

1 x 5 = 5

44. Mark the numbers 4, -3, 6, -1 and -5 on the number line.

45. Simplify :

i)  $\frac{18}{24} \times \frac{30}{12}$

ii)  $\frac{120}{100} + \frac{30}{100}$

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