

SECOND TERM END EXAMINATION - 2025

7 Std

MATHEMATICSReg No.

Time : 2.00 HR

MARKS: 60

Instructions:

- ❖ Write clearly and legibly without mistakes and overwriting utilising the maximum time allotted for the exam
- ❖ Answers should be in your own style without changing the main core concept.
- ❖ Use only black or blue ink pen to write the exam.
- ❖ Draw clear diagrams wherever necessary.

PART - A**I Choose the correct Answer.****5 X 1 = 5**

1. The Place Value of 3 in 85.073 is
a) tenths b) hundredths c) thousands d) thousandths
2. Formula used to find the circumference of a circle is
a) $2\pi r$ units b) $\pi r^2 + 2r$ units c) πr^2 sq.units d) πr^3 cu.units
3. The exponential form of 72 is
a) 7^2 b) 2^7 c) $2^2 \times 3^3$ d) $2^3 \times 3^2$
4. One of the angles of a triangle is 85° . If the difference of the other two angles is 45° then the two angles are
a) $85^\circ, 40^\circ$ b) $70^\circ, 25^\circ$ c) $80^\circ, 35^\circ$ d) $80^\circ, 135^\circ$
5. The elements along the sixth row of the pascal's Triangle is
a) 1, 5, 10, 5, 1 b) 1, 5, 5, 1 c) 1, 5, 5, 10, 5, 5, 1 d) 1, 5, 10, 10, 5, 1

II Fill in the blanks.**5 X 1 = 5**

6. The decimal form of $\frac{3}{5}$
7. Area of the circle
8. $a^m \times a^n =$
9. Degree of the constant term is
10. The sum of three angle of a triangle is

III Say True or False.**5 X 1 = 5**

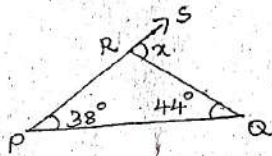
11. $37.70 = 37.7$
12. The decimal number 1.7 is lies between the whole numbers 2, 3 .
13. Radius is the two times of diameter
14. $2^0 = 1$
15. The sum of exterior angles of a triangle is 360° .

IV Match the following.**5 X 1 = 5**

16. 0.47 - $(a \times b)^m$
17. Area of the Rectangular pathway - $\pi(R^2 - r^2)$ Sq.Units
18. Area of the Circular pathway - a^{m-n}
19. $a^m \div a^n$ - LB - lb Sq.units
20. $a^m \times b^m$ - $\frac{47}{100}$

PART - B**v Answer any Ten Questions.****10 X 2 = 20**

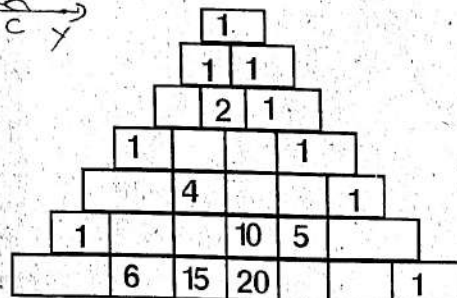
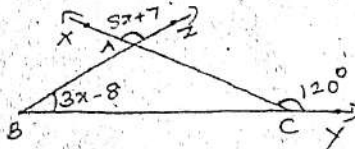
21. Expand the following decimal number 658.37
22. Write the following fraction as decimal $\frac{3}{4}$.
23. Compare the following decimal number and find out the smaller number 123.5, 12.35.
24. Represent the decimal number 1.7 on the number line.
25. What is the circumference of the circular disc of radius 14 cm? ($\pi = \frac{22}{7}$)
26. Find the area of the circle whose radius is 21 cm (use $\pi = 3.14$)
27. Find the value of 9^3
28. Identify the greater number 5^3 Or 3^5
29. Find the unit digit of 9^{12}
30. Find the degree of $12pq^2r^2$
31. Can the following angles form a triangle? $80^\circ, 70^\circ, 50^\circ$
32. In figure, find the value of x.



33. What is congruency?
34. Write the condition of congruency right angled triangle.
35. If two angles of a triangle are 46° each, how can you classify the triangle

PART- C**vi Answer any five questions only.****5 X 3 = 15**

36. Express 6 m 6 cm in metre.
37. Arrange the given decimal in descending order. 17.35, 71.53, 51.73, 73.51, 37.51.
38. The area of the circular region is 2464 cm^2 find its radius.
39. A floor is 10 m long and 8 m wide. A carpet of size 7 m long and 5 m wide is laid on the floor. Find the area of the floor that is not covered by the carpet.
40. If $a=3$ and $b=2$ then find the value of $(a+b)^b$.
41. Identify the like terms. $12x^3y^2z, -y^3x^2z, 4z^3y^2x, 6x^3z^2y, -5y^3x^2z$
42. Find the value of x



43. Complete the following pascal's Triangle.

PART- D**vii Answer any one Questions.****1 X 5 = 5**

44. a). Draw a triangle XYZ given that $XY=6 \text{ cm}$, $YZ = 5.5 \text{ cm}$. and $ZX = 5 \text{ cm}$

(OR)

- b) Construct a triangle ABC given that $BC=8 \text{ cm}$, $AC=6 \text{ cm}$ and $\angle C = 40^\circ$.