SECOND TERM END EXAMINATION - 2025

7 Std **MATHEMATICS** Reg 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°, 40° b) 70°, 25° c) 80°, 35° d) 80°, 135°
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°.

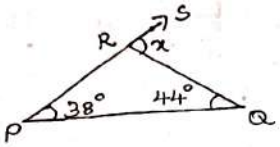
IV Match the folliowing. 5 X 1 = 5

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 π =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? $80^0, 70^0, 50^0$
32. In figure, find the value of x .

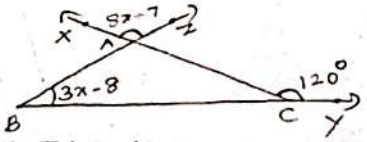


33. What is congruency?
34. Write the condition of congruency right angled triangle.
35. If two angles of a triangle are 46^0 each, how can you classifty the triangle

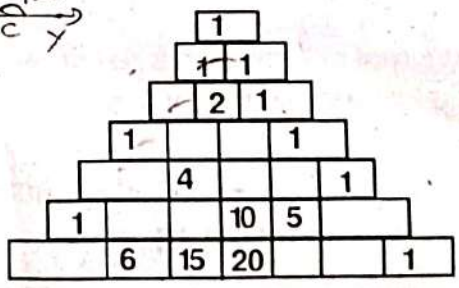
PART- C

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 cm, YZ = 5.5 cm. and ZX = 5 cm

(OR)

b) Construct a triangle ABC given that BC= 8cm, AC=6cm and $\angle C = 40^0$.