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COMMON QUARTERLY EXAMINATION - 2024-25

Time Allowed: 2.30 Hours

MATHEMATICS

[Max. Marks: 100

PART - I

Choose the correct Answer.

10x1=10

The sum of the digits of the denominator in the simplest form of $\frac{112}{528}$ is 1.

- 2.

Closure property is not true for division of rational numbers because of the number

5.

8.

- is added to get 252 4.

Area of a Circle

- 2πr
- 1/4 Tr2
- $2\pi r^2$

7.

- The product of 7P3 and (2P2)2 is -14P12

 $(a + b) (a^3 - b^3)$ a2 - b2

- a) $a^2 ab + b^2$
- $a^2 + ab + b^2$ b)

28P7

- $a^2 + 2ab + b^2$ C)

Two similar triangles will always have ----- angles. 9.

- b) Obtuse
- (c) Right
- Matching

The number of conversion periods in a year, if the interest on a principal is compounded every two month is

a)

Fill in the Blanks. 11.

- The Multiplicative inverse of -1 is 11.
- 12. The one digits in the square of 77 is --
- The longest chord of a circle is 13.
- The cube has ----- faces. 14.
- The symbol ~ is used to represent ---15.

Say true of false. III.

5x1=5

5x1=5

- 0 is the smallest rational number () 16.
- The square root of 225 is 15. () 17.
- 18. $27y^3 + 3y = 9y^2$.
- The co-ordinates of the origin are (1, 1). () 19.
- Loss or gain percentage is always calculated on the selling price. () 20.

IV. Match the following. 5x1=5

21. Area of a circle

- 1/4 πr²
- 22. Circumference of a circle
- $(\pi + 2) r$
- 23. Area of the sector of a circle
- πr^2
- 24. Circumference of a semi circle
- 2_πr
- 25. Area of a quadrant of a circle

V. Answer any 10 of the following. (Q.No.40 Compulsory)

10x2=20

Find a rational number between $\frac{1}{3}$ and $\frac{5}{9}$

V/8/Mat/1

- 27. Evaluate: i) $\frac{9}{132} \times \frac{-11}{3}$ ii) $\frac{-7}{27} \times \frac{24}{-35}$
- 28. Find the value of $\sqrt{256}$.
- 29. Simplify (35 + 38)5 x 3-8
- 30. By how much does $(\frac{1}{10/11})$ exceed $(\frac{1}{10})$?
- 31. A circular shaped Gymnasium ring of radius 35cm is divided into 5 equal arcs shaded with different colours. Find the length of each of the arcs.
- 32. A circle of radius 70 cm is divided into 5 equal sectors. Find the area of the sectors.
- 33. Find the product of $2x^2y^2$, $3y^2z$ and $-z^2x^3$
- 34. Simplify: $\frac{3m^2}{m} + \frac{2m^4}{m^2}$
- 35. Find the value of $(3a + 4c)^2$ by using $(a+b)^2$ Identify.
- 36. What is 25% of 30% of 400?
- 37. If x% of 600 is 450 Then find the value of x.
- 38. The value of motor cycle 2 years ago was ₹.70,000. It depreciates at the rate of 4% p.a. Find its present value.
- 39. Can a right triangle have sides that measure 5 cm, 12 cm and 13 cm?
- 40. Is 108 a perfect square number?

PART - III

VI. Answer any Seven questions. (Q.No.50 Compulsory.)

7x5=35

41. Arrange the following rational numbers in ascending and decending order.

42 Simplify:
$$\left[\frac{4}{3} - \left(\frac{-3}{2}\right)\right] + \left[\frac{-5}{3} \div \frac{30}{12}\right] + \left[\frac{12}{9} \times \frac{-27}{16}\right]$$

43. What is the square root of Cube root of 46656?

44. If P + 2q = 18 and Pq = 40, Find
$$\frac{2}{p} + \frac{1}{q}$$

- Find the least numbers by which 1800 should be multiplied so that it becomes a perfect square number.

 Also find the square root of the perfect square thus, obtained.
- 46. Find the Area of the given figure.

Radius r = 3.5 cm.



- 47. Multiply: (2x+5y) and (3x-4y).
- 48. Find the quadrats without plotting the points on a graph (-3, 4), (2, 0) (-7, -3), (5, 2).
- 49. Find the C.I for the data Principal = Rs 4000, r = 5% p.a, n = 2 years.
- 50 Divide: (5y3 25y2 + 8y) by 5y

PART - IV

VII. Answer the following.

2x10=20

- 51. a) Construct a quadrilateral DEAR, with DE = 6 cm, EA = 5 cm, AR = 5.5 cm RD = 5.2 cm and DA = 10 cm.

 Also Find its area. (OR)
 - b) Construct a quadrilateral NICE with NI = 4.5 cm, IC = 4.3 cm, NE = 3.5 cm, NC = 5.5 cm and IE = 5 cm.
 Also find its area.
- 52. a) Draw a straight line by joining the points A (-2, 6) and B (4, -3)

(OR)

b) If the points P(5,3), Q(-3,3), R(-3,-4) and 'S' from a rectangle, then find the co-ordinate of S.