COMMON QUARTERLY EXAMINATION - 2024

	St	andard VIII	Reg.No.	
Time: 2.30 hrs	MA	THEMATICS Part - I	nin to the	
L Choose the o	correct answer	Tart-1	Marks:	
		umbers the greatest?	14 x 1 =	: 14
a) -17	-13	c) $\frac{7}{-8}$	- d - 31 Abox (-	
24	16	c) -8	d) 32	
The standard f	form of the sum $\frac{3}{4}$	$+\frac{5}{6}+\left(\frac{-7}{12}\right)$	1-(c) 7/2 s	
2. The standard f a) 1	b) $\frac{-1}{2}$	c) $\frac{1}{12}$	d) $\frac{1}{22}$	
3. Which of these	e rational numbers	which are additive in	verse?	
a) 7	b) $\frac{-5}{7}$	c) 0	d) all of these	
 Closure prope 	rty is not true for div	ision of rational numb	ers because of the number	er
a) 1	b) -1	c) 0.	d) $\frac{1}{2}$	
5 , 48 is approx	imately equal to _		2	
a) 5	b) 6	c) 7	d) 8	
6. By what number	er should (-4)-1 be	multiple so that the p	product becomes 10 ⁻¹ ?	
a) $\frac{2}{3}$	b) $\frac{-2}{5}$	$\begin{array}{c} \text{c)} \ \frac{5}{2} \end{array}$	d) $\frac{-5}{2}$	2
The cross sect	ion of a solid cylind	der	io in la Zillium I haberta	
a) square	b) circle	c) rectangle	d) sphere	
8. The area of a s	square is 36x4y2, th	nen its side is	10 10 10 10 10	
a) 6x ⁴ y ²	b) $8x^2y^2$	c) 6x ² y	d) –6x ² y	
9. If the area of th	e rectangle is 48m	1 ² n ³ whose length is 8	mn ² , then its breadth is	
a) 6mn	b) 8m ² n	c) 7rn ² n ²	d) 6m ² n ²	
10. When 60 is sub	tracted from 60%	of a number to give 6	0, the number is	
a) 60	b) 100	c) 150		
1. By selling a flow	ver pot for ₹528, a v	woman gains 20%. At	what price should she se	ell
it to gain 25%?			Aller of the state of the state of	
a) ₹500	b) ₹550	c) ₹553	d) ₹573	

2

VIII Maths

COMMON QUARTERLY EXAMINATION - 2024

- 12. The cost of a machine ₹18,000 and it depreciates at 16 \(\frac{2}{3}\) % annually, its value after two years will be ______.
 - a) ₹12,000
- b) ₹12,500
- c) ₹15,000
- d) ₹16,500
- 13. Two similar triangles will always have _____ angles.
 - a) acute .
- b) · obtuse
- c) right
- d) match
- 14. If $\triangle ABC \sim \triangle PQR$ in which $\angle A = 53^{\circ}$ and $\angle Q = 77^{\circ}$, then $\angle R$ is
 - a) 50°
- b) 60°
- c) 70°
- d) 80°

Part - II

II. Answer any 10 questions.

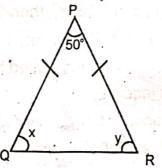
10 x 2 = 20

- 15. Compare the pairs of rational number: $\frac{3}{-4}$, $\frac{-1}{2}$
- 16: Find the square root of $\frac{144}{225}$
- 17. Find the smallest number by which 200 should be multiplied to make it a perfect cube.
- 18. Find the value of 4⁻³.
- 19. A circular shaped gymnasium ring of radius 35 cm is divided into 5 equal arcs shaded with different colours. Find the length of each of the arc.
- 20. Find the area of the sector whose length of arc 48 m and radius 10 m.
- 21. Verify Euler's formula for the faces 6, vertices 8 and edges 12 for polyhedrons.
- 22. Find the product of $3x^2y$, $-3xy^3$, x^2y^2
- 23. Divide: $45x^3y^2z^4 \div (-15xyz)$
- 24. Simplify: $\frac{3m^2}{m} + \frac{2m^4}{m^3}$
- 25. If x% of 600 is 450, then find the value of x.
- 26. If the selling price of 10 rulers is the same as the cost price of 15 rulers, then find the profit in percentage.

3

VIII Maths

27. Find the difference in C.I and S.I for P = ₹5000, r = 4% p.a, n = 2 years



28. Find the unknowns in the given figure.

29. Can a right triangle have sides that measures 5 cm, 12 cm and 13 cm?

III. Answer any 10 questions.

DAMES COMPOSITION

$$10 \times 5 = 50$$

30.
$$a = \frac{1}{2}$$
, $b = \frac{2}{3}$, then find $(a + b) \div (a - b)$

- 31. Find the square root of 11025 by long division method.
- 32. Find the cube root of 24 x 36 x 80 x 25

33. Solve for x:
$$\frac{5^5 \times 5^{-4} \times 5^x}{5^{12}} = 5^{-5}$$

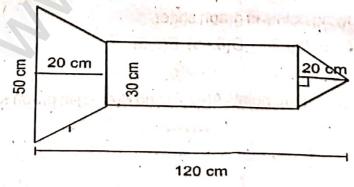
34. Find the central angle of each of the sectors whose area is 462 cm² and radius

$$21 \text{ cm.} \left(\pi = \frac{22}{7}\right)$$

35. Find the perimeter and area of the given figure.



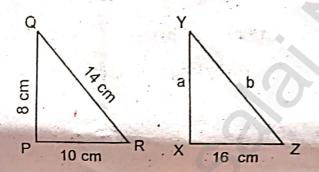
36. A rocket drawing has the measures as given in the figure. Find its area.



VIII Maths

37. Multiply (2x + 5y) and (3x - 4y)

- 38. If $l = 4pq^2$, $b = -3p^2q$, $h = 2p^3q^3$, then find the value of $l \times b \times h$
- 39. Divide: $5xy^2 18x^2y^3 + 6xy$ by 6xy.
- 40. The income of a person is increased by 10% and then decreased by 10%. Find the change in his income.
- 41. Find the single discount in percentage which is equivalent to two successive discounts of 25% and 20% given on an article.
- 42. The value of a motorcycle 2 years ago was ₹70,000. It depreciates at the rate of 4% p.a. Find its present value.
- 43. In the given figure, ΔPQR ~ ΔXYZ. Find a and b.



44. Find the quadrants without plotting the points on a graph sheet.

$$(3,-4)$$
 $(5,7)$ $(2,0)$ $(-3,-5)$ $(0,10)$

Part - IV

IV. Answer the following questions.

 $2 \times 8 = 16$

- 45. a) Construct the quadrilateral with given measurements, also find its area.

 ABCD, AB = 5 cm, BC = 4.5 cm, CD = 3.8 cm, DA = 4.4 cm and AC = 6.2 cm.

 (OR)
 - b) Construct a trapezium CARD in which is \overline{CA} parallel to \overline{DR} , CA = 9 cm, $\angle CAR = 70^{\circ}$, AR = 6 cm and CD = 7 cm. Also find its area.
- 46. a) Plot the following points in graph sheet. A(5,2), B(-7,-3), C(-2,4), D(0,-5), E(2,0)

(OR)

b) Draw a line joining the points A(-2,6) and B(4,-3) in graph sheet.
