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COMMON QUARTERLY EXAMINATION - 2024					
	•		dard VIII	Reg.No.	
	·		CHATICS	Frail	
Tin	ne : 2.30 hrs		art - I	Marks: 100 2515) 4 14 x 1 = 14	
I. Choose the correct answer: $2515147 14 \times 1 = 14$					
1.	Which of the following rational numbers the greatest? -31				
	a) $\frac{-17}{24}$	b) $\frac{-13}{16}$	c) $\frac{7}{-8}$	d) $\frac{-31}{32}$	
	24	10	$\left(\begin{array}{c} 7 \end{array} \right)$. 0,	
2.	The standard for	m of the sum $\frac{3}{4} + \frac{5}{6}$	$+\left(\frac{-7}{12}\right)$		
	a) 1	b) $\frac{-1}{2}$	(12) $\frac{1}{12}$	d) $\frac{1}{22}$	
3.	Which of these rational numbers which are additive inverse?				
•.	a) 7	b) $\frac{-5}{7}$	c) 0	d) all of these	
4.	Closure property is not true for division of rational numbers because of the number				
	a) 1	b) –1		d) $\frac{1}{2}$	
5.		ately equal to		-	
0.	a) 5	b) 6 .	c) 7	d) 8	
6.	By what number should $(-4)^{-1}$ be multiple so that the product becomes 10^{-1} ?				
•	a) $\frac{2}{2}$	b) $\frac{-2}{5}$	c) $\frac{5}{2}$	d) $\frac{-5}{2}$	
7.	The cross section of a solid cylinder				
	a) square		c) rectangle	d) sphere	
8.	The area of a square is $36x^4y^2$, then its side is				
•••		b) 8x ² y ²			
9.	If the area of the rectangle is 48m ² n ³ whose length is 8mn ² , then its breadth is				
	a) 6mn	b) 8m ² n	c) 7m ² n ²		
10.	10. When 60 is subtracted from 60% of a number to give 60, the number is				
	a) 60	b) 100	c) 150	d) 200	
11.	11. By selling a flower pot for ₹528, a woman gains 20%. At what price should she sell				
it to gain 25%?					
	a) ₹500	b) ₹550	c) ₹553	d) ₹573	

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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 d) ₹16,500 c) ₹15,000 13. Two similar triangles will always have angles. a) acute b) obtuse d) match c) right 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 Answer any 10 questions. 11. $10 \times 2 = 20$ 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 3x²y, -3xy³, x²y²
- 23. Divide : $45x^{3}y^{2}z^{4} \div (-15xyz)$
- 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.

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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?

Part - III

III. Answer any 10 questions.

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

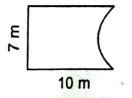
- 31. Find the square root of 11025 by long division method.
- 32. Find the cube root of $24 \times 36 \times 80 \times 25$

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

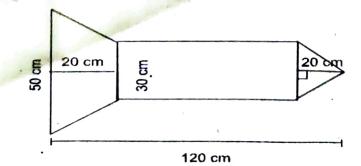
34. Find the central angle of each of the sectors whose area is 462 cm² and radius

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

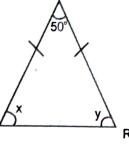
35. Find the perimeter and area of the given figure.



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



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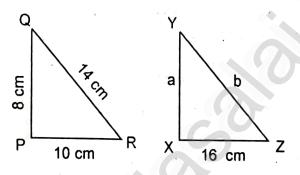
 $10 \times 5 = 50$

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- 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, $\triangle PQR \sim \triangle XYZ$. 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)

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, GD = 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.