COMMON ANNUAL EXAMINATION - 2023

COM	NON ANNOA	- EXAMINATION	2020	
	Stan	dard VIII	Reg No	
C	MATH	IEMATICS		
Time : 2.30 hrs			Marks: 100	
I. Choose the cor	rect answer:		14×1=14	
		RQH', how will 'RADIO'	be coded?	
a) SCGNH		c) UDGLR	d) SDHKQ	
		en you toss three coin	s once?	
a) 6	b) 8	c) 3	d) 2	
3. Inclusive series i	s a series.			
	b) discontinuou	s c) both	d) none of these	
4. Data is a collecti	on of			
a) numbers	b) words	c) measurements	d) all the three	
5 The hypotenuse	of a right angled tria	ingle of sides 12 cm an	d 16 cm is	
a) 28 cm	b) 20 cm	c) 24 cm	d) 21 cm	
6. The medians of	a triangle cross each	n other at		
a) circumcircle	b) mean	c) centroid	d) radius	
7. The area of the	Rhombus is			
a) 1/2 h(a+b) s	q.units	b) 1/2 x d1 x d2 sq	units	
c) 1/2 bh sq.un		d) Ib sq units		
• • • • • • • • • • • • • • • • • • •		, but not necessaril	y the same size.	
	b) shape		d) similarity	
9. The sum of the	three angles of a tria			
a) 160°	b) 180°	c) 90°	d) 400°	
10. If 5 persons car	do 5 jobs in 5 days.	then 50 persons can d	lo 50 jobs in	
a) 7 days	b) 5 days	c) 50 days	d) 10 days	
11. A fruit vendor s	ells fruit for Rs 200 g	aining Rs.40. His gain ;	percentage is,	
a) 20%	b) 22%	c) 25%	d) 163/3%	
-,			/ / 3	

c) marked price

c) y-axis

c) 61

d) discount

d) Il quadrant

12. Loss or gain percentage in is always calculated on the

b) x-axis

b) selling price

a) cost price

a) origin

a) 41

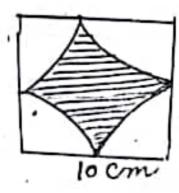
13 X-axis and Y-axis intersect at _

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VIII Mathematics

10 x 2 = 20

- II. Answer any 10 of the following questions: 15. Find the value of $(-3)^4 \cdot (5/3)^4$
- 16. Find the square root of $\frac{144}{225}$
- Find the area of the shaded part in the given square.



- 18. Expand : (3m + 5)2
- 19. Find the value of x if 2x + 5 = 9
- 20. If x% of 600 is 450, then find the value of x.
- 21. What is 25% of 30% of 400?
- 22 Factorise : x2 + 8x + 16
- 23 If selling an article for Rs.820 causes 10% loss on the selling price, then find its cost price.
- 24. Can a right triangle have sides that measure 5 cm, 12 cm and 13 cm.
- 25. Give the statement of Pythagoras theorem.
- 26 Represent the following data in ungrouped frequency table which gives the number of children in 25 familles.

 1.3,0,2,5,2,3,4,1,0,5,4,3,1,3,2,5,2,1,1,2,6,2,1,4
- 27. If you have 2 school bags and 3 water bottles then, in how many different ways can you choose each one of them, while going to school?
- 28. Using repeated division method, find the HCF: 455 and 26.
- III. Answer any 10 of the following :

29. Find the sum : $-4\frac{2}{3} + 7\frac{5}{12}$ ii) $\frac{-3}{11} + \frac{8}{11}$

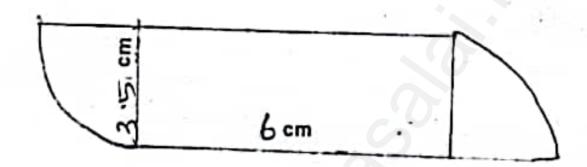
3 + 8 10 x5 = 50

30. Find the square root by long division method: 17956

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VIII Mathematics

- 31. The radius of sector is 21 cm and its central angle is 120°, find its area and find the length of the arc.
- 32. Factorise using $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ 64x3 + 144x2 + 108x + 27
- 33. Expand: (98)3
- 34. Factorise: 49x2 64y2
- 35. One number is seven times another of their difference is 18, find the numbers.
- 36. Multiply: (2x + 5y) and (3x 4y)
- 37. Find the perimeter and area of the figure given :



38. Draw a pie chart for the following data relating to the cost of construction of a house.

Particulars	Bricks	Steel	Cement	Timber	Labour	Others	٦.
Expenses	10%	15%	25%	10%	20%	20%	٦.

39. Draw a histogram for the following data.

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
No.of students	5	15	23	20	10	7

- 40. The price of a raincoat was slashed from Rs.1060 to Rs.901 by a shopkeeper in the rainy season to boost the sales. Find the rate of discount given by him.
- 41. By repeated subtraction method, verify the result: 320, 120 and 95
- 42. Find the best buy of the egg purchase. Baskar buy 1 1/2 dozen of eggs for Rs.81 and Aruna buy 15 eggs for Rs.64.50.





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VIII Mathematics

IV.Answer the following:

8 x 2 = 16

43. i) Construct a rectangle with the given measurements and also find their area Draw a rectangle HAND with HA = 7 cm and AN = 4 cm.

(OR)

- Construct a quadrilateral DEAR with DE = 6 cm, EA = 5 cm, AR = 5.5 cm, RD = 5.2 cm and DA = 10 cm.
- 44. i) Plot the following points in a graph sheet.

A(5.2), B(-7,-3), C(-2,4) D(-4.0), E(0,7), F(7,-4)

(OR)

ii) Draw the graph of y = x -4
