QUARTERLY EXAMINATION - 2023

CLASS: 8

MATHEMATICS

Reg. No.:

15x1=15

TIME : 2.30 Hrs.

MAX. MARKS: 100

I. Choose the best answer.

- 1. $\frac{-3}{}$ is a rational number which lies between ...
- b) -1 and 0 c) -1 and -2 d) -4 and -5 a) 0 and
- 3. $(-2)^{-3}x(-2)^{-2} =$

a) 90°

a) $6x^4v^2$

- \cdot a) $\frac{-1}{22}$

b) 180°

- c) 360° d) 270°
- Area of a quadrilateral is a) $\frac{1}{2}$ x d x (h1+h2) sq. units

4. The Central angle of a semicircle is

- c) $\frac{1}{2} x h x (a+b)$ sq. units
- 6. If the area of a square is $36x^4y^2$ then its side is
 - b) $8x^2v^2$ c) $6x^2v$
- d) $\frac{1}{2}$ x d1 x d2 sq. units

b) $\frac{1}{2}x(h1+h2)$ sq. units

- 7. (-5, -4) lies in which quadrant? a) First quadrant b) Fourth quadrant c) Third quadrant d) Second quadrant
- 8. If 48% of 48=64% of X then X = ...
 - b) 56 · (c) 42
- 9. What is the marked price of a hat which is bought for Rs. 210 at 16% discount? a) Rs. 243 b) Rs. 176
- c) Rs. 230 d)Rs. 250 10. The number of conversion periods in a year, if the interest on a principal is compounded every two
- months is
- 11. In the figure, which of the following statements is true?

 - a) AB = BDb) BD < CD</p>
- c) AC = CD

 - d) BC = CD: 8th Maths - Qtly - NMK - Page-1

10	10 00 1	1 16 am is		1
L	12. The hypotenuse of a right angled triangle of sides 12 am a	11	21 cm	
	a) 28 cm b) 20 cm c) 24 cm	m ~/		1.1.
13	13. How many outcomes can you get when you toss three col	ns once?		
	a) 6 b) 8 c) 3	d)	2	** (
12	14. How many 2 digit numbers contain the number 7?			
	a) 10 b) 18 c) 19	d)	20	1.
. 13	a) 4 b) 6 c) 5		7	
	a) 4 ' b) 6 c) 5		7	
. IJ	II. Fill in the blanks		51	1=5
16	16. The rational number does not have	a reciprocal.		A 2.
	17. For $a \neq 0$, a° is			
	18. The longest chord of a circle is			
10.0	19. Loss or gain percentage is always calculated on the			N. Sara
	20. x-axis and y-axis intersect at			
20	20. A -Axis and y -axis intersect at			
IJ	III. Match the following.		5	x1=5
2	21. Square of 7 $= \pi r^2$ sq. units.	1.000		
22	22. $a^m \times a^n = -12 y^3$			
2	23. Area of circle = I quadrant			
. 24	$24. 4y^2x(-3y) = a^{m+n}$			
	25. (5,7) = 49			
1				15.0
	IV. Say true or false.	Version 19	5	x1=5
	26. The average of two rational numbers lies between them.	Programme High		
2	27. The square of 75 is 4925.		九二年完二年	
2	$28. \ x^m \div x^n = x^{m-n}$	1 2 March 1		
. 2	29. In a right angled triangle, the hypotenuse is the greatest	side.		
3	30. (-3, 7) is lies in third quadrant.			
٠.				
•	V. Answer any ten questions.		. 10:	x2=20
	31. Compare $\frac{3}{4}$ and $\frac{5}{6}$.			1
3	31. Compare 4 and 6.			77.
•	-6 8 -12		The sections	
32	32. Add: $\frac{-6}{6}$, $\frac{8}{11}$, $\frac{-12}{11}$			
2	33. Find the square of 203.			
				:
	34. Is 400 a perfect cube?			
3	35. Evaluate: $(3^{-1} + 4^{-2} + 5^{-3})^0$			
		100		

36. Find the area of the sectors whose length of the arc is 48m and the radius is 10.

37. Find the product of $2x^2y^2$, $3y^2z$ and $-z^3x^3$.

38. 48 is 32% of which number?

39. Find the difference in compound interest and simple interest for principle amount is Rs. 5000 and rate of interest is 4%

40. State Pythagoras theorem.

41. Shanthi has 5 chudithar sets and 4 frocks. In how many possible ways, can she wear either a chudithar or a frock?

42. In which quadrant lies the points (-7,2) (+10,-2).

VI. Answer any 6 questions.

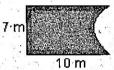
6x5=30

43. Arrange the following rational numbers in ascending order $\frac{-5}{12}$, $\frac{-11}{8}$, $\frac{-15}{24}$, $\frac{-7}{-9}$, $\frac{12}{36}$

44. Find the square root of 1764 by using long division method.

45. A circle of radius 120m is divided into 8 equal sectors. Find the length of the arc of each of the sectors.

46. Find the perimeter and area of the following figure.

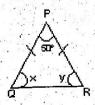


47. Divide: $(5y^3 - 25y^2 + 8y)$ by 5y

48. Find the product of (2x+3)(2x-4)

49. If a car is sold for Rs. 200000 from its original price of Rs. 300000, then find the percentage of decrease in the value of the car.

50. Find the unknowns in the following figure.



51. Can a right triangle have sides that measure 5 cm, 12 cm and 13 cm?

52. In class VIII, a math club has four members M,A,T and H. Find the number of different ways, the club can elect...

i) a leader,

ii) a leader and an assistant leader.

VII. Answer any one of the following:

1x10=10

 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)

Construct the following trapezium with the given measures and also find their area AIMS with , \overline{AI} II \overline{SM} AI = 6 cm, IM = 5 cm. AM = 9 cm and MS = 6.5 cm.

VIII. Answer any one of the following

1x10=10

54. Plot the following points in a graph sheet.

A (5,2), B (-7,-3), C (-2,4), D (-1,-1), D (0,-5), F (2,0), G (7,-4), H (-4,0), I (2,3), J (8,-4).

(or)

Draw a straight line by joining the points A(-2,6) and B(4,-3).