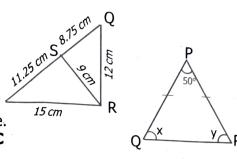
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OL	JARTERLY EXAMINATION, 2022.	Reg. No.			
VIII - MATHS					
Time	: 2.30 Hrs.		Maximum	Marks : 1	100
PART - A					
_	Choose the correct answer			(14×1	!=14)
I.	Which of the following rational numbers is the g	reatest?			
1.		7	d) $\frac{-31}{-31}$		
_	a) $\frac{-17}{24}$ b) $\frac{-13}{16}$ c) Closure property is not true for division of ration	-8 nal numbe	ers because	e of the	
2.			U1 1/2		
3.	The longest chord of a circle is a) radius b) diameter c) a A cube has faces b) 6 c) 5		d) circur	nfarance	_
	a) radius b) diameter c) a	arc	a) circui	HIEIEHO	
4.	A cube has faces a) 5 b) 6 c) 7	7	d) 8		
5.	a) 5				
٥.	a) circle b) diameter c) cone	a) cyl	inder		
6.	The product of P^2 and $(2P^2)^2$ is	d) 11	D 12		
7.	te the area of a course is $36x^4v^2$ then, its sides	S IS			
/·	a) $6x^4y^2$ b) $8x^2y^2$ c) $6x^2y$	d) -6	X²y a breadth i	is (a - b)
8.	a) $6x^4y^2$ b) $8x^2y^2$ c) $6x^4y$ If the area of a rectangular land is (a^2-b^2) sq.ur			3 (4 -	,
	then, its length is a) $a - b$ b) $a + b$ c) $a^2 - b^2$	d) (a	+ b) ²		
9.	When so is subtracted from 60% of a number	to give o	u, the nun	iber is	
,	a) 60 b) 100 c) 150	tho 1	O .		
10.	Loss or gain percentage is always calculated on a) Cost price b) Selling price c) I	Discount	d) Marke	ed price	;
11.	The number of conversion periods in a year, in	he miletes	st on a prir	ncipal is	i
11.	compounded every two months is	6	d) 12		
		ากเคร			
12.	h) obtuco	10 11 11	d) matcl	ning	
13.					
15.	h) 20cm	ZTCITI	a). 21Cii	1	
14.	How many 2 digit numbers contain the number	10	d) 20		
	a) 10 b) 18 PART - B	13	۵, ۵		
_	Answer any 10 questions.			(10×2	?=20,
工	Find atleast two rational numbers between $\frac{-3}{4}$	and $\frac{-2}{3}$			
15.	Find atleast two rational numbers between 4	ion.			
16.	Find the square root of 324 by prime factorisat Show that 1944 is not a perfect cube.				
17.	Fill in the blanks.				
18.	i) Length of the arc =				
	ii) Area of the sector = The radius of a sector is 21cm and its central a	anale is 12	20°. Find	the leng	gth
19.	The radius of a sector is 21cm and its central of	arigio is			
20	of the arc. Verify Euler's formula for a polyhedron ha	ving 10	faces, 6 \	vertices	and
20.					
21.	Find the product of the terms $3x^2y$, $-3xy^3$,	x-y-			
22.	Divide: $27y^3$ by $3y$				
23.	Simplify: $\frac{3m^2}{m} + \frac{2m^4}{m^3}$				
24.	48 is 32% of which number? If the selling price of 10 rulers is the same as	the cost	price of 15	5 rulers,	, the
25.	find the profit percentage.		V	III - Math	ıs - 1
	ind the profit percentage.				

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- Find the difference in C.I. and S.I. for 26.
- P = 5,000, r = 4%p.a., n = 2 years.27.
- Prove that $\triangle PQR \sim \triangle PRS$ in the given figure. Can a right triangle have sides that 28.
- measure 5cm, 12cm and 13cm? 29.
 - Find the unknown side in the given triangle.



PART - C

Ш Answer any 10 Questions.

Write the following rational numbers in ascending and descending order. (10×5=50) 30.

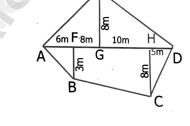
$$\frac{3}{5}$$
, $\frac{7}{-10}$, $\frac{-13}{20}$, $\frac{14}{-30}$, $\frac{-8}{15}$

- 31. Find the square root of 11025 by long division method.
- Simplify. $\frac{9^2 \times 7^3 \times 2^5}{94^3}$ 32. a)

34.

44.

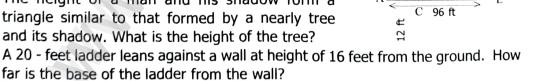
- Find x so that $(-7)^{x+2}$ x $(-7)^5$ = $(-7)^{10}$ b) 33.
 - A circle of radius 120m is divided into 8 equal sectors. Find the length of the arc of each of the sectors.
- Find the area of the shaded region in the square of side 10cm as given in the figure. 35. Find the area of the irregular polygon shaped fields given below.
- If $l = 4pq^2$, $b = -3p^2q$, $h = 2p^3q^3$ then 36. find the value of $I \times b \times h$



E

10 cm

- 37. Multiply (2x + 5y) and (3x - 4y)38. Divide $5xy^2 - 18x^2y^3 + 6xy$ by 6xy
- Find the quadrants without plotting the points on a graph sheet. 39.
- i) (3, -4) ii) (5, 7) (2, 0)iv) (-3, -5) v) (-7, 2) The income of a person is increased by 10% and then decreased by 10%. Find 40.
- the change in his income. 41. If selling an article for ₹820 causes 10% loss on
- the selling price, then find its cost price. 42. The value of a motor cycle 2 years ago was ₹70,000. It depreciates at the rate of 4% p.a. Find its present
- value. 43. The height of a man and his shadow form a triangle similar to that formed by a nearly tree and its shadow. What is the height of the tree?



- Answer the following questions. (2×8=16) IV. 45. Construct a Quadrilateral ABCD with AB = 5cm, BC = 4.5cm, CD = 3.8cm, DA = 4.4cm and AC = 6.2cm. Also find its area. (OR)
- \overline{TA} , BO = 7cm, Construct a trapezium BOAT in which \overline{BO} is parallel to OA = 6cm, BA = 10cm and TA = 6cm. Also find its area.

46. Draw the graph of x = 5(OR) Draw the graph of v = 6.

www.Padasalail.Net Sec. School. Dalmiapuran - michy at, Std-8-Maths-Quarterly Exam-2022-Key 18) (i) LA = 0 × 2717 Part-B Pant-A (ii) A.3 = 310 xTTY2 1.(0) -1/24 $\frac{-3}{4} = \frac{-3}{4} \times \frac{5}{5} = \frac{-15}{20}$ 19) r= 21 cm 0=120° 2.(0)0 $\frac{1}{5} = \frac{2}{5} \times \frac{4}{4} = \frac{8}{20}$ 3.(b) diameter L.A= 120 x2x2 x21 4.(6)6 Any 2: - - 9 , -10 ...-14 = 44 Cm 5.(a) Circle 20) Euler's formula 16)2 324 6. (b) 28p7 2 162 F+V-E=2 7,(c) 622y = V2x2x9x9 1HS: 10+6-12 = 16-12=4 8. (b) a+b .. Not satisfied. + 2=RHS 9.(d) 200 = 2 ×9 10. (a) cost price = 18 21) producet = 3xy x -3xy xxy 17) 11.(0)6 2 1944 = -92546 12.(d) matching 3 has not 972 a triplet 486 13. (b) 20 cm $\frac{99}{34} = 94^2$ 243 14.6) 18 8 a cube. 2-7 $\frac{3m^2}{m} + \frac{2m^4}{m^3}$ 25) S.pof corder = 7.2 s.p of 1 rules = 7. 70 = 3m+2m C.p of 15 rules = 7.2 =5m c.p of 1 rules = 7. 75 24) Let the number be 2 or profit = poofit x100 48 = 32 xx = S.P-C.P X100 48×100 = x $=\frac{\cancel{x}}{10}-\frac{\cancel{x}}{15}$ 32 2=150 $26) CI - SI = P(\frac{x}{100})^2$ = 5000 × 4 × 4 = 52 x 15 x 100 $= \frac{78}{279} = \frac{15}{11.25} = \frac{4}{3}$ $= \frac{15}{11.25} = \frac{4}{3}$ $= \frac{12}{11.25} = \frac{4}{3}$ Kindly send me your district question papers Aorone what sapp number: 7358065593 = 65

