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TVL	



		diciton District			
Common	Quarterly	Examination,	September	•	2024

		Star	ndard 8 ATHS	Marks: 100
Tim	e: 2.30 Hours		art - I	20×1=20
A	Choose the corr 1) The square of	f 43 enus With the	e digit	d) 3
	a) 9 . 2) If the are of	a square is 36x ⁴ y ² b) 8x ² y ²	then its side is c) 6x²	s ² y d) -6x ² y
•	3) If 48% of 48	= 64% of x, then b) 56		d) 36 nales
		riangles will alway b) obtuse utcomes can you		coss three coins once?
	a) 6	b) 8	c) 3	c) 2
B]	 7) The meeting 8) 6xy × 9) Loss or gain 10) In any triang True or False: 	cative inverse of -2 point of more than	a two edges in a ays calculated of e opposite to eq	lual angles.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	12) The additive	inverse of $\frac{-11}{-17}$ is chord of a circle is	$\frac{11}{17}$	
		n value is calculate	ed by the formul	$\ln P = \frac{r}{100}$
D]	Match the follow			100
	 16) 5x(x²-y²+xy 17) 5x (4xy-4) 18) Circumferer 19) Symbol = 20) Symbol ~ 	ce of the circle - -	2πr units congruent tria similar triangl 20x ² y-20x 5x ³ -5xy ² +5x ²	
Ans	swer any 12 que	stions of the follo		12×2=24
	21) The product of	of two rational numb	er is $-\frac{2}{3}$ if one n	number is $\frac{3}{7}$ then find the other.
	22) Compare $\frac{3}{2}$ 23) Write the fo (i) 1642.392	$\frac{7}{4}$ and $\frac{5}{6}$	s scietific notation	on
	24) Find the squ 25) Find the squ	lare root of 324 by lare root of 9801 b f radius 7.5 cm is	prime factorisay long division i	ation The Carlo Land Color Carlo
	27) Find the nu faces, 4 ve 28) Find the lend 29) Multiply 3x ² 30) Divide: (4m ² 31) If the side (4m ² 31)	mber of edges of a rtices.	ector of central a +9xy) 4mn. then find its ar	sing Euler's formula if it has 4 angle is 45° and radius is 6 cm.
	32) II X70 UI UU	o is 450, then illia	the value of X.	

2 Find the compound interest on principal Rs.4000, at 5% p.a. for 2 years, compounded annually.

34) Find the values of x and y in the following figure



35)

Find the unknown side in the following triangle

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

Part - III

Answer any 8 questions of the following:

8×5=40

BULL

37) Write the following rational numbers in ascending and descending order

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

38) Find the value of $\sqrt{42.25}$

i)
$$\frac{2^{2x-1}}{2^{x+2}} = 4$$

(ii)
$$\frac{5^5 \times 5^{-4} \times 5^{\times}}{5^{12}} = 5^{-5}$$

40)



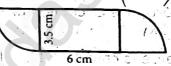
Four identical medals, each of diameter 7 cm are placed as shown in the figure. Find the area of the shaded region

Cative inverse

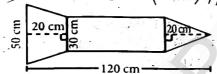
between the medals $\pi = \frac{22}{7}$

41) Find the perimeter and

area of the figure $(\pi = \frac{22}{7})$



42)



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

43) Expand: $x^2(x+y+z) + y^2(x+y+z) + z^2(x-y-z)$

44) Divide: $81(p^4q^2r^3+2p^3q^3r^2-5p^2q^2r^2)$ by $(3pqr)^2$

45) The income of a person is increased by 10% and then decreased by 10%. Find the change in his income.

46) The population of a town is increasing at the rate of 6% p.a. It was 238765 in the year 2018. Find the population in the year 2016 and 2020.

47) Find LM, MN, LN and also the area of Δ LON.



48) 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 Part - IV

8 Mark questions:

2×8=16

49) a] 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.

b] Construct a trapezium BOAT in which \overline{BO} is parallel to \overline{TA} , $\overline{BO} = 7$ Cm, OA = 6 cm, BA = 10 cm and TA = 6 cm. Also find its area.

50) a] Plot the following points in a graph sheet A(5, 2), B(0, -5), C(-1, -1), D(8, -4), E(-2, 4), F(-4, 0)

b) Draw the graph of x = 5

V.S. GILBERT SAMUEL M.SC., B.ED., PALAYAMKOTTAI, TIRUNELVELI.