нss 8 - Std

## HALF YEARLY EXAMINATION 2024

MATHS

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	. 1	- 1	1	7.	

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Time: 3.00 Hrs

29) · Simplify:  $\sqrt{12} X \sqrt{3}$ .

Marks: 100

		PART- A	•		10X 1 = 10					
. I	Choose the correct answer	s:-			TOX -					
1)	1) The number which is subtracted from -6/11 to get 8/9 is									
			142		The second second					
	a) $\frac{34}{99}$ b) $\frac{-14}{99}$	<del>-</del>	c) <del>99</del>	d) $\frac{-34}{99}$						
2)	The square of 43 ends with th			b) 6	c) 4 d) 3					
3)	The longest chord of a circle is	e digit	. a) 5		- Salah Jan					
3)	a) Radius b) Diar	neter	-) Davimotor	d) Arc						
4)	The cross section of a solid cy	lindor is	c) Perimeter	۵)،						
7)	a) square b) circle	inder is	· · ·	d) triangle						
5)	If $x^2 - x^2 = 16$ and $(x + x) = 0$	) }	c) rectangle	b) 3	c) 2 d) 1					
	If $x^2 - y^2 = 16$ and $(x + y) = 8$	then (x-y) is	a) 8	t than the cm:	allest number					
6)	The largest number of the thre	e consecutive n	umbers is x +	1, then the sind	allese manne					
	$15 \dots \dots \dots $	1	1 4 + 1	0) X - T						
7)	What is the market price of a	hat which is bo	ught for Rs. 2	10 at 16% disc	Country					
	a) Re 243 h) Re	176 c\r	2 2 3 3 0	a) RS. 4	30					
8)	The number of conversion per	ods in s year ,ii	f the interest o	n a principal is	compounded					
	every two month is	) 2	b) 4	c) 6	d) 12					
9)	The hypotenuse of a right and	led triangle of	sides 12 cm an	d 16 cm is						
, - E	a) 28 cm. b) 20 c	m.	c) 24 cm	d) 21 cm	1					
10)		ntain the numb	er 7 ? a) 10	b) 18 c) 19	d) 20					
II	Fill in the blanks.			T.Y	$5 \times 1 = 5$					
	The rational number	nes not have a	reciprocal.	Control of Physics						
12)										
13)			d'en elle le d'in							
14)	A can finish a job in 3 days w		s it in 6 days.	The time taker	to complete					
	the job working together is		sit in o days.	1110 011110 011110						
15)	In any triangle sides		equal angles							
•	True or False :-	are opposite to	equal aligics.		5 X 1 = 5					
		mbore lies bet	waan tham		3 / 1 - 3					
16)		imbers lies betw	veen them.							
	A cube has 4 faces.	- 41								
18)	The coordinates of the origin				1.0					
-	Linear equation in one variable									
20)	Two numbers are said to be co	-prime number	's if their HCF	is 1						
IV	Match.				$5 \times 1 = 5$					
21)	(a <sup>m</sup> ) <sup>n</sup>	- marked	price - selling p	orice	유수를					
22)	Area of the sector of a circle	- 2:1		SIVANANDHA K GHS SANDHAI KELAMANG						
23)	$a^2-b^2$	- a <sup>mn</sup>		CHO NONDHO I						
				GHS SANDHAI KELAMANGALAI DENKA	M.A., B.ed					
24)	Discount	$-\frac{\theta}{X} \times \pi$	$r^2$	PANGOLO	NAPALII.					
	315	360								
25)	Centroid	- (a + b)	(a - b)							
				KRISHNAGIR PH:9003372	l DT					
17	Anguaytha fallani	PART - 1	3	PH:9003373	500					
V	Answer the following :(any	12)		, 0,	12 4 2 = 24					
26)	Compare the pairs of rational	$\frac{3}{5}$		K vii	$12 \times 2 = 24$					
χ	Time and pairs of factorial	4, 6								
27)	2 The state of the									
28)	write the following number in	scientific notati	on . 46780006	0000						
29)	Simplify: $\sqrt{12} \times \sqrt{3}$ .	**************************************	-70000							

The radius of a sector is 10 m and it's length of the arc is 48 m . Find the area of the

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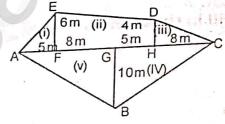
- 31) A circular shaped gymnasium ring of radius 35 cm is divided into 5 equal arcs shaded with different colours. Find the length of each of the arcs. SIVONONDHO K M.O., B.ed. GHS SANDHANAPALLI
- Find the product of 2x²y², 3y²z and -z²x³. 32)
- 33) Simplify (3x + 5y)(3x 5y) by using identity.
- 34) Factorise  $x^2 + 14x + 49$ .
- 35)
- Find the quadrants without plotting the points on a graph. (-3, -5), (4, -3), (5, 2), (0, 10)36)
- If x% of 600 is 450 ,then find the value of x
- A and B together can do a piece of work in 16 days and A alone can do it in 48 days. How long will B take to complete the work?
- A 20 feet ladder leans against a wall at height of 16 feet from the ground. How far is the base of the ladder from the wall?
- 40) Find the value of x, y in the figure.
- Using repeated subtraction method, find the HCF of the following . 36 and 80.
- The sum of three consecutive odd numbers is 75. Which is the largest among them?

 $7 \times 5 = 35$ 

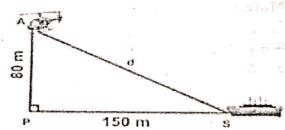
- Answer the following :(any 7). VI
- 43) Write the following rational numbers in ascending and descending order.

$$\frac{-5}{12}$$
,  $\frac{-11}{8}$ ,  $\frac{-15}{24}$ ,  $\frac{-7}{-9}$ ,  $\frac{12}{36}$ 

- 44) Simplify.  $\frac{9^2 X 7^3 X 2^5}{84^3}$ .
- Find the area of an irregular polygon field whose measures are as given in the figure.



- 46) Find the volume of the cuboid whose dimensions are (x + 2), (x 1), and (x 3)
- 47) The sum of two numbers is 36 and one number exceeds another by 8. Find the numbers.
- A value of motor cycle 2 years ago was Rs. 70000. It depreciates at the rate of 4% p.a. Find its present value.
- 210 men working 12 hours a day can finish a job in 18 days . How many men are 49) required to finish the job in 20 days working 14 hours a day?
- Find the distance between the 50) helicopter and the ship.



- 51) Using repeated division method, find the HCF. 392 and 256
- Factorise:  $x^3 + 15x^2 + 75x + 125$ . 52)

## PART - D.

## VII Answer the following:-

- $2 \times 8 = 16$
- 53) Construct a trapezium AIMS in which AI | SM , AI = 6 cm ,IM = 5 cm AM = 9 cm, MS= 6.5cm. Also find its area. (OR) Construct a rhombus ROSE with RO = 5 cm and RS = 8 cm. Also find its area.
- Plot the following points in a graph sheet. A (5, 2), B (0, 0), C (-2, 4), D (-1, -6), 54) E (0, -5), F (2, 0), G (3, -6), H (-7, 0), I (-2, 5), J (4, 1) (OR) Draw the graph of X = 5.

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