HALF YEARLY EXAMINATION - 2025

20, 40				
IVI	Λ	T	1-5	C

Time	e: 2.30 Hrs HSL	1100 1100 110 110 110 110 110 110 110 1		Marks: 100		
	,	PART - A				
I.	Choose and write the co	orrect answer.		$10 \times 1 = 10$		
1.	The words an weblate to cubit	racted Holli -b) II to det	8/9 is			
	a) 34/99 b) -142/	99 c) 142/99	d) -34/99			
2.	2/1 / (5/0 : 1/2)-					
	a) 5/8 b) 2/3	C) 15/32	d) 15/16			
3.	The cross section of a solid	cylinder is				
	a) Square b) Circle	c) Rectangle	d) Triangle			
4.	If the area of a square is 3	6x4y'then, its side is				
	a) $6x^4y^2$, b) $8x^2y^2$	c) 6x2y	d) -6x ² y			
5.	If $x^2 - y^2 = 16$ and $(x + y)$	= 8 then (x-y) is				
	a) 8	b) 3	c) 2 d) 1	-		
6.	A fruit vendor sells fruits	for ₹ 200 gaining ₹ 40.	His gain percent	tage is		
	a) 20% b) 22%	•	c) 25% d) 16	2/3%		
7.	The number of conversion	periods in a year, if the	interest on a prin	ncipal is		
	compounded every two r	nonths is				
	a) 2 b) 4		c) 6	d) 12		
8.	Two similar triangles will	always haveang	iles.			
	a) acute b) obtuse c) right . d)matching					
9.	· How many out comes can	you get when you toss t	hree coins once			
	a) 6 · b) 8		c) 3	d) 2		
10.	What is the eleventh Fibor	acci number				
	a) 55 b) 77		c) 89	d) 144		
II	Fill in the blanks.			$5 \times 1 = 5$		
11.	The rational number	_does not have a recipr				
12.	The longest chord of a circ	le is				
13.	X-axis and Y-axis intersect					
14.	Loss or gain percentage is	always calculated on the	2			
15.	The medians of a triangle	cross each other at				
III	Say True ? False ?			$5 \times 1 = 5$		
16.	The additive inverse of -11	/-17 is 11/17.				
17.	The square root of 225 is 1	.5.				
18.	The standard form of 2 x 1	0^{-4} is 0.0002.	6			
19.	A cube has five faces.			= 1		
20.	In a right angled triangle, Match.	the hypotenuse is the ar	reatest side			
IV		Apotenase is the gr	catest side.	$5 \times 1 = 5$		
21.	a ^m + a ⁿ	- S.P - C.P)	2 / 1 - 2		
22.	Circumference of a circle	- IV Quadra				
23.	3-D shape	- a ^{m+n}	HIL			
24.	Profit	- 2пr				
25.	(6,-5)	- Cylinder				
٧.	Answer the follows:	PART - B				
26.	Answer the following. (Compare. 3/4 and 5/6.	Any 12).		$12 \times 2 = 24$		
	3/0,	200 CORRES WITH		10 10		

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- Find the value of $\sqrt{256}$. 27.
- Evaluate: $(1/2)^3$. 28.
- Simplify: $\sqrt{12} X \sqrt{3}$. 29.
- A circle of radius 120m is divided into 8 equal sectors. Find the length of the arc 30. of each of the sectors.
- Divide: $27y^3$ by 3y. 31.
- Expand : $(3m+5)^2$. 32.
- Factorise : $x^2+14x+49$. 33.
- Solve : 2x + 5 = 9. 34.
- One number is seven times another. If their difference is 18. Find the numbers. 35.
- Find the quadrants without Plotting the points on a graph sheet. 36. (3, -4), (5, 7), (-3, -5), (0, 10).
- If x % of 600 is 450, then find the value of x. 37.
- Find the difference in C.I and S.I for P = 3000, r = 4% p.a, n = 2 years. 38.
- A and B together can do a piece of work in 16 days and A alone can do it in 48 39. will B take to complete the work? days. How long
- Can a right triangle have sides that measure 5cm, 12cm and 13cm? 40.
- Using repeated subtraction method, find the HCF of 36 and 80. 41.
- Write the following number in scientific notation: 467800000000. 42.

PART - C

Answer the following (Any 7). VI

 $7 \times 5 = 35$

6CM

- Arrange the rational number in ascending and descending order. 43. -5/12, -11/8, -15/24, - 7/-9. 12/36.
- Find the square root of 459684 by long division method. 44.
- Find the cube root of 24 \times 36 \times 80 \times 25. 45.
- Find the area of the combined figure given, 46. formed by joining a semicircle of diameter 6 cm with a triangle of base 6 cm and height 9 cm. (n = 3.14).
- Expand: (x + 3)(x + 5)(x + 2). 47.
- The length of a rectangular field exceeds its breadth by 9 metres. If the perimeter of the field is 154m, find the length and breadth of the field. 48.
- The value of a motor cycle 2 yrs ago was ₹70000. It depreciates at the rate 49. of 4% p.a. Find its present value.
- A Cement factory makes 7000 cement bags in 12 days with the help of 36 50. bags can be made in 18 days using 24 machines? machines. How many
- ABC is a triangle and G is its centroid. If AD = 12cm, BC = 8 cm and 51. BE = 9cm.find the perimeter of \triangle BDG.
- Using repeated division method, find the HCF of 455 and 26. 52.

PART - D

Answer all the questions. VII

 $2 \times 8 = 16$

- Construct a trapezium BOAT in which BO ||TA, BO = 7cm, OA = 6cm, 53. Also find its area. (OR) BA = 10cm, and TA = 6cm. Construct a rhombus FACE with FA = 6 cm and FC = 8cm. Also find its area.
- Draw a straight lines by joining the points A (2, 5) B (-5, -2) M (-5, 4) N (1, -2) 54. also find the point of intersection. (OR) Draw the graph of y = 6.

HSL 8 MATHS (E.M) PG. - 2