Reg.No.

## FIRST MID TERM TEST - 2024

Standard VIII

			MATH	EMA	TICS				
Time : 1.30 hrs			Part - A				Marks : 50		
1.	Choose the correct	ct ansv	ver:					5 x 1 = 5	
1.	$\frac{-5}{4}$ is a rational nu	ımber v	vhich lies be	twee	n			X	
	a) 0 and $\frac{-5}{4}$	b) -1	and 0	c)	-1 and -2	d)	-4 and -5	5	
2.	$\sqrt{128} - \sqrt{98} + \sqrt{18} =$								
	a) √2	b) √8	1200.	C)	√48	d)	<del>√32</del>		
3.	If the cube of a squa	ared nu	mber is 729	, the	square root of	that num	ber is		
	<b>a</b> ) 3	b) 9		c)	$\sqrt{3}$	d)	81		
4.	If $\frac{10^x}{10^{-3}} = 10^9$ , then 3			× 10		15			
_			i zastvili.	c)		d)	7		
5.	The central angle of a) 45°	ta qua b) 60	_	rcie is c)	90°	d).	180°		
Ħ.	Fill in the blanks.	. 4	97e n 111 v 2 37	700 3				5 x 1 = 5	
6.	The next rational nu	ımber i	n the seque	nce -	$\frac{-15}{24}$ , $\frac{20}{-32}$ , $\frac{-25}{40}$ i	is			
7.	7. The value of $\sqrt{180}$ lies between integers and								
8.	$(3^{-1} + 4^{-2} + 5^{-3})^0 = $								
9.	The ratio between t	he circ	umference a	and di	ameter of any	circle is	,		
10.	A cube has	faces.							
	Match the following	ng.						5 x 1 = 5	
	am x an		πr <sup>2</sup> sq.unit	S					
12.	Area of a quadrilate	ral -	a <sup>m+n</sup>						
13.	<b>3√x</b>	-	Q						
14.	Rational number	,,, · •	$\frac{1}{2}d[h_1+h_2]$	.1					
15.	Area of a circle	•	* 1/3						

2 Part - B VIII Maths

IV. Answer any 6 questions.

 $6 \times 2 = 12$ 

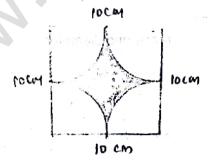
- 16. Draw a number line and represent the rational number  $-\frac{8}{3}$  on it.
- 17. Write the decimal form of the rational number  $\frac{1}{3}$
- 18. Compare  $\frac{5}{17}$  and  $\frac{-10}{19}$
- 19. Divide:  $\left(\frac{-3}{13}\right) \div (-3)$
- 20. Find the square root of 324 by Prime factorisation.
- 21. Write the numbers in scientific notation:
  Earth's volume is about 1,083,000,000,000 cubic kilometers.
- 22. The radius of a sector is 21 cm and its central angle is 120°. Find the area of the sector.
- 23. Define : Sector.
- 24. Verify Euler's formula for the given details: Faces 4, Vertices 4, Edges 6
  - V. Answer any 3 questions.

 $3 \times 5 = 15$ 

25. Arrange the following rational numbers in ascending order.

$$\frac{-17}{10}$$
,  $\frac{-7}{5}$ , 0,  $\frac{-2}{4}$ ,  $\frac{-19}{20}$ 

- 26. The area of a square field is 3136 m<sup>2</sup>. Find its perimeter.
- 27. Find the square root by long division method: 6889
- 28. Expand using exponents
  - i) 6054.321
- ii) 897.14
- 29. Find the area of the shaded part in the following figure. ( $\pi$  = 3.14)



Part - D

VI. Answer anyone of the question.

1 . . . .

- 30. Construct a quadrilateral ABCD with AB = 5 cm, BC = 4.5 cm, CD = 3.8 cm, DA = 4.4 cm and AC = 6.2 cm. Also find its area.
- 31. Construct a trapezium BOAT in which  $\overline{BO}$  is parallel to  $\overline{TA}$ ,  $\overline{BO}$  = 7 cm,  $\overline{OA}$  = 6 cm,  $\overline{BA}$  = 10 cm and  $\overline{TA}$  = 6 cm. Also find its area