

## KENDRIYA VIDYALAYA KHAMMAM

## FARMATIVE ASSESSMENT-I (2015-16)

Time : 90mins	CLA	SS- IX MATHS	Marks : 40
1. Answer the fol 1) $(64)^{\frac{1}{2}}$	-		4X1=4
a) 8	b) 2	c) 4	d) 6
2) The degree of t	the polynomial 5x <sup>3</sup>	+4x <sup>2</sup> +7x =	
a)3	b)5	c)4	d)6
3) How many nun a)2	nbers of lines can p b)1	bass through two c)3	distinct points. d)infinite
<ol> <li>Euclid stated th a) an axiom</li> </ol>		are equal to each c)a postulate	n other in the form of d)a proof
II. Answer the following questions 42			
5) Rationalise the	denominator of $\frac{1}{2}$	$\frac{1}{1+\sqrt{3}}$	
	of k, if x-1 is afacto		K
7) If AC=BD then	prove that AB=CD		
A	В	C D	
8) Prove that eve	ery line segment ha	as one and only o	ne mid point.

## **III.**Answer the following questions

## 4x3=12

4x4=16

- 9) Find three different irrational numbers between the rational numbers  $\frac{5}{7}$  and  $\frac{9}{11}$
- 10) Classify the following numbers as rational (or) irrational.
  - a)√23 b)0.3796 c)7.478478.....
- 11) Factorise x<sup>3</sup>+13x<sup>2</sup>+32x+20
- 12) Expand  $(-2x+3y+2z)^2$ , using suitable identities.
- IV.Answer the following questions
- 13) Locate  $\sqrt{2}$  on the number line.
- 14) Express 0.001 in the form of  $\frac{p}{q}$ , where p and q are integers and q  $\neq$  0.
- 15) Verify  $x^3+y^3 = (x+y)(x^2+-xy+y^2)$
- 16) Factorise 4x<sup>2</sup>+9y<sup>2</sup>+16z<sup>2</sup>+12xy-24yz-16xz

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