

KENDRIYA VIDYALAYA KHAMMAM

FARMATIVE ASSESSMENT-I (2015-16)

Time: 90mins	CLA	SS- IX MATHS	Ma	rks : 40
I. Answer the fol	lowing MCQ's			4X1=4
1) $(64)^{\frac{1}{2}}$				
a) 8	b) 2	c) 4	d) 6	
2) The degree of t	the polynomial 5x³	$+4x^2+7x =$		
a)3	b)5	c)4	d)6	
3) How many nun a)2	nbers of lines can p b)1	pass through two c)3	distinct points. d)infinite	
4) Euclid stated th a) an axiom		are equal to each c)a postulate	other in the form o d)a proof	f
II. Answer the following questions				4x2=8
5) Rationalise the	denominator of $\frac{1}{2}$	$\frac{1}{2+\sqrt{3}}$		
6) Find the value	of k, if x-1 is afacto	or of 4x³+3x²-4x+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

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) $\sqrt{23}$

b)0.3796

c)7.478478.....

11) Factorise $x^3+13x^2+32x+20$

12) Expand $(-2x+3y+2z)^2$, using suitable identities.

IV. Answer the following questions

4x4=16

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 $4x^2+9y^2+16z^2+12xy-24yz-16xz$
