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FORMATIVE ASSESSMENT –I (2016-17)

CLASS: IX SUB: MATHS

TIME: 90 MINS MAXIMUMMARKS: 40

I.MULTIPLE CHIOCE QUESTIONS 4X1=4

1. Which of the following is an irrational number ---------

a) $\sqrt{4}$ b) $\sqrt{9}$ c) -1 d) $\sqrt{7}$

2. The degree of a constant polynomial is-----

a) 1 b) 0 c) -1 d) 2

3. The coefficient of "t "from the expression 1+ t^3 -t^2 -t is-----

a) 1 b) 0 c) -1 d) 2

4. The reflex angle of 60^0 is --------

a)120^0 b) 300^0 c) 305^0 d)360^0

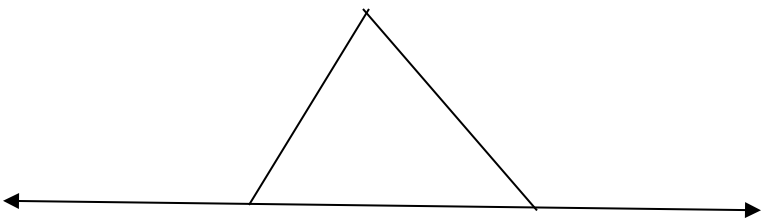
II. Very short answer questions 4X2=8

5. Visualize 4.26 on number line, using successive magnification?

6. Factorise $9x^2 +6xy+y^2$?

7. Write any four axioms of Euclid's with examples?

8. In given figure, LPQR = LPRQ, then prove that LPQS = LPRT



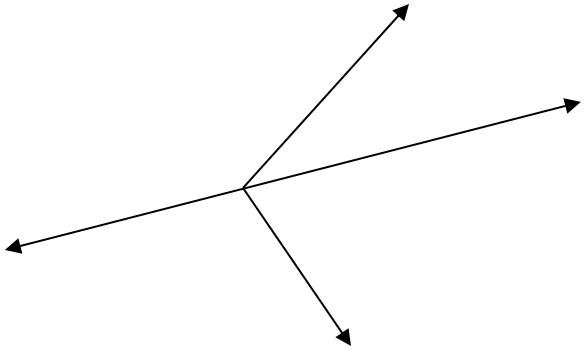
III.Short answer questions 4X3=12

9. Show how $\sqrt{5}$ can be represented on the number line?

10. Area of rectangle is $25a^2$-35a+5 then find the dimensions of rectangle.

11write five postulates of Euclid s with neat diagram.

12. In figure, if x+y =w+z, then prove that AOB is a line.



IV.Long answer questions 4X4=16

13. Verify that $x^3+y^3+z^3-3xyz= \frac{1}{2}(x+y+z)[(x-y)^2+(y-z)^2+(z-x)^2]$.

14. Expand each of the following, using suitable identities:

a) $(2x-y+z)^2$ b) $(-12)^3+(7)^3+ (5)^3$

15. Define a) Adjacent angles b) linear pair of angles c) complementary & supplementary angles?

16. If both a and b are rational numbers then find the values of a and b from the following:

$$\frac{3+\sqrt{7}}{3-\sqrt{7}} = a + b\sqrt{7}$$

BLUEPRINT

SUB: MATHS CLASS: VII

S.N0	CHAPTER	MCQ(5)	VSA(4)	SA(5)	LA(3)	TOTAL MARKS
1	COMPARING QUANTITIES	1(1)	2 (2)	1(3)	1(4)	12
2	RATIONAL NUMBERS	2(1)	1(2)	2(3)	1(4)	14
3	ALGEBRAIC EXPRESSIONS	2(1)	1(2)	2(3)	1(4)	14
TOTAL		5(1)	4(2)	5(3)	3(4)	40