ASSIGNMENT NO.9

STD –VIII SUBJECT – MATHS CH. NO. - 9,14

1. Find the product of ($p^{2}$- 6p + 3) with ( 2p -3)
2. Simplify (a+ b) ($a^{2}$ + $b^{2}$ - ab) when a= 2, b= -1
3. Find the square of (5x + 2y)
4. Simplify (101) x 99
5. Simplify (y-1) (y +1) ($y^{2}$ + 1) ($y^{4}$ + 1)
6. If x - $\frac{1}{x}$ = 5 , find the value of (i) $ x^{2}+ \frac{1}{x^{2}}$ (ii) $x^{2}$ - $\frac{1}{x^{2}}$
7. Simplify $a^{2}$ + (3a –b) ( 3a + b + $b^{2}$)
8. Factorise :- 10 $a^{2}$ - 15 $b^{2}$ + 20 $c^{2}$
9. Factorise :- $4x^{2}$ + 12 x + 9
10. Factorise :- 18 $x^{2}$ + 48 x + 32
11. Factorise $x^{4} $ - $y^{4}$
12. Factorise : $3m^{2}$ + 9m + 6
13. Divide 44($x^{4}$ - $5x^{3}$ - 24 $x^{2}$ ) by 11 x (x – 8)
14. Divide ( $y^{2}$ + 7 y + 10) by (y + 5)
15. Divide z ( 5$z^{2}$ -80 ) by 5z( z+4)
16. Write all the identities of algebraic expressions.
17. Multiply (7a+3b) and (2a+3b) and find the value if a=-2 and b= 2
18. Using identities solve (0.5s –t) (0.5s+t)
19. Subtract 3pq(p-q) from 2pq(p-q)
20. Simplify and evaluate 3y(2y-7) -3(y-4) -63 for y= -2
21. Find (6x2  - 7y2 ) (6x2 +7y2)
22. Find (v+2) (v-2) (v2 + 4) using identities
23. Solve (a- b)2 + ( b- c)2 + (c – a )2
24. Simplify (82)2 - (18)2
25. Show that (3x+7)2 -84 x = (3x-7)2
26. Evaluate 107 x 103 using identity

s