

## ASIGNMENT - 3

## SUB - MATHEMATICS

DATE - 28.10.2014

**Q1. Factorize the following -**

(i)  $4x^2 - 20x + 9$

(ii)  $5x^2 + 7x - 6$

(iii)  $x^2 + 7x + 12$

(iv)  $m^2 - 2m - 63$

(v)  $12x^2 - 19x - 10$

**Q2. Solve the following given equations -**

(i)  $3(z + 1) - 2(4z - 3)$

(ii)  $\frac{4}{x-2} = \frac{7}{x+8}$

(iii)  $5 = \frac{7}{2x+1}$

(iv)  $\frac{x+4}{2x+1} = \frac{x+2}{2x-1}$

**Q3.** Four less than three times a number is 8 more than twice the number. Find the number.

**Q4.** The difference between the Squares of two consecutive numbers is 10%. Find the number?

**Q5.** In 7 years from now, ram will be twice as old as he was 8 years ago. How old is he now?

**Q6.** A rectangular parking plot has an area of  $5x^2 + 17x + 6$  square units. One of its side is?