

**Note – All Question is compulsory.**

Q.1 – Solve the following and check the result -.

a)  $2x+4=8$

b)  $\frac{1}{2}x + \frac{1}{3}x = 15$

Q.2- Add the following.

a)  $9a-3b$  to  $6a-10b$

b)  $3x^2-4x+8$  to  $5x^2+9x-4$

Q.3 – Subtract the following –

a)  $-5xy$  from  $15xy$

b)  $x - x^2+5$  from  $7-x + x^2$

Q.4 – Simplify the expression and find its value when  $a=5$  and  $b= -3$

$2(a^2+ab)+3-ab.$

Q.5 – Find three rational numbers between the following.

$\frac{7}{6}$  and  $\frac{2}{3}$

Q.6 – In a group of 1680 students  $\frac{1}{7}$  participated in music and  $\frac{2}{3}$  participated in dance. How many students did not take part in any of the activities?

Q.7 – Simplify  $(\frac{7}{8} \times \frac{1}{2}) - (\frac{5}{6} \times \frac{4}{4})$

Q.8 – Draw a number line and represent the following

a)  $\frac{3}{2}$

b)  $\frac{1}{2}$