Saturday weekly test - 8th may - 2021

Marks - 15

Class - IX Math

- **Very short answer type Questions.** $1 \times 5 = 5$

(1) Evalute $(81)^{3/4}$.

(2) Find the value of x from $\sqrt[3]{3x-2} = 4$

(3) The zeros of the polynomial $P(x) = x^2 - 3x$ are ?

(4) If $P(x) = x^3 - 3x^2 + 2x$. Find $P(-3)$.

(5) Find the zero of the polynomial $r(x) = 2x + 5$.

- **Short answer type question** $2 \times 5 = 10$

(1) Verify that 2 and -3 are zeros of the polynomial $P(x) = x^2 + x - 6$

(2) check whether $(7+3x)$ is a factor of $(3x^3 + 7x)$.

(3) Find the value of k for which $(x-1)$ is a factor of $(2x^3 + 9x^2 + x + k)$.

(4) Represent $\sqrt{3}$ on the number line.

(5) Simplify

$$\left(\frac{x^p}{x^q}\right)^{p+q} \cdot \left(\frac{x^q}{x^r}\right)^{q+r} \cdot \left(\frac{x^r}{x^p}\right)^{r+p}$$