

Class 10 - Maths  
Polynomials – Quiz -1

(1- Mark Questions)

1. How many zeroes have this polynomial  $p(x) = x^3 + 2x^2 + 5x + 1$ .

- (a) 2
- (b) 3
- (c) 1
- (d) None of these

2. In  $p(x) = 3x^2 + 5x - 8$ , zeroes are -

- (a) -1, 8
- (b)  $1, \frac{-8}{3}$
- (c)  $-1, \frac{8}{3}$
- (d)  $1, \frac{8}{3}$

3. Which of the following is a polynomial-

- (a)  $\sqrt{x} + \frac{1}{\sqrt{x}} + 2$
- (b)  $3x^2 + \frac{1}{x} + 1$
- (c)  $\sqrt{3}x^2 + 4x + 5$
- (d) None of above

4. Which of the following is not a polynomial -

- (a)  $3x^2 + 4x + 1$
- (b)  $\sqrt{5}x^2 + 3x + 1$
- (c)  $5x^2 + \frac{1}{\sqrt{x}} + 3$
- (d) All of these

5. In  $p(x) = x^3 + 5x^2 - 7x + 2$ , Find  $p(-1)$

- (a) 8
- (b) 5
- (c) 13
- (d) None of these

6. If  $\alpha$  and  $\beta$  are the zeroes of Polynomial  $p(x) = x^2 - 8x + 12$ , then Find  $\alpha + \beta$

- (a) -8
- (b) -6
- (c) -2
- (d) +8

7. If  $\alpha$  and  $\beta$  are the zeroes of Polynomial  $p(x) = 3x^2 + 8x - 11$ , then Find  $\alpha\beta$

- (a)  $\frac{11}{3}$
- (b)  $\frac{-11}{3}$
- (c) -11
- (d) None of these

8. A Quadratic polynomial, the sum and product of zeroes are 0 and  $\sqrt{5}$  respectively is-

- (a)  $x^2 + \sqrt{5}$
- (b)  $x^2 - \sqrt{5}$
- (c)  $x^2 - x + \sqrt{5}$
- (d) None of these

9. The zeroes of a polynomial  $x^2 + 5x - 24$  are

- (a) One positive and one negative
- (b) Both positive
- (c) Both negative
- (d) None of these

10. Degree of a polynomial :  $2x^4 + 3x^3 - 5x^2 + 9x + 1$  is -

- (a) 2
- (b) 3
- (c) 4
- (d) 5

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