

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

POLYNOMIALS

SESSION -2024-25

CLASS - 10th

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Time: 1:00hr - Test - polynomials :-

mm: 50

Q. 1. Multiple choice questions :-

(i) The degree of polynomial in quadratic polynomial will be :

- (a) 1 (b) 2 (c) 3 (d) Infinity

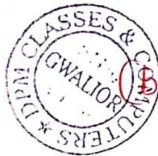
(ii) The sum of the zeroes of the quadratic polynomial $ax^2 + bx + c$ will be :

- (a) $\frac{b}{a}$ (b) $\frac{a}{b}$ (c) $-\frac{b}{a}$ (d) $-\frac{c}{d}$



(iii) The number of polynomials having zeroes as -2 and 5 is :

- (a) 1 (b) 2 (c) 3 (d) more than 3

(iv) If α and β are the zeroes of the (zeroes of the) quadratic polynomial $ax^2 + bx + c$, then the value of α, β is :

- (a) $\frac{c}{a}$ (b) $\frac{a}{c}$ (c) $-\frac{c}{a}$ (d) $-\frac{a}{c}$

(v) The zeroes of the polynomial $x^2 - 3$ will be :

- (a) $\pm\sqrt{3}$ (b) ± 3 (c) 3 (d) 9

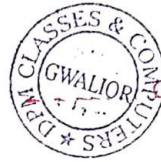
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Q. 2. Fill in the blanks :-

- (i) $P(x)$ is a polynomial in x the highest power of x in $P(x)$ is called
- (ii) A polynomial of degree 3 is called a Polynomial.
- (iii) The zeroes of $(x-1)(x-2)$ are and
- (iv) The sum of two polynomial is
- (v) ax^2+bx+c is the example of a ---- polynomial.
- (vi) The value of the variable which makes the value of a polynomial zero are called ---- of the polynomial.
- (vii) The maximum number of zeroes of the linear polynomial is



Q. 3. Answer in one word/sentence :-

- (i) What is the degree of a linear polynomial ?
- (ii) Write the formula of product of zeroes from quadratic polynomial ax^2+bx+c
- (iii) If α and β are the zeroes of ax^2+bx+c , then what will be the value of $\alpha+\beta$?

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Q.3. Find the zeroes of the following quadratic polynomials and verify, the relationship between the zeroes and the coefficients :

(a) $3x^2 - x - 4$

(b) $4u^2 + 8u$

Q.4. Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively :

(a) $\frac{1}{4}, -1$

(b) $-1, \sqrt{5}$



Q.5. Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively :

(a) $4, 1$

(b) $1, 1$



Q.6. Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively :

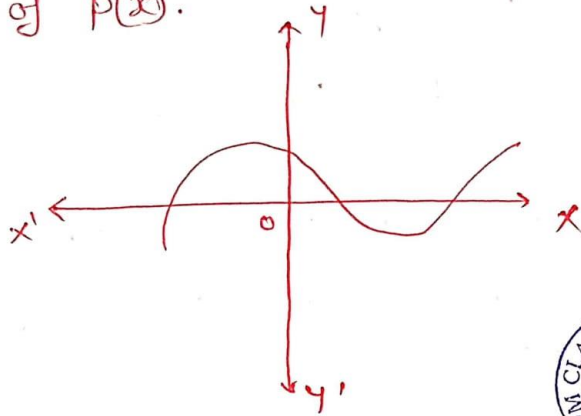
(a) $0, \sqrt{5}$

(b) $\sqrt{2}, \frac{1}{3}$

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Q.7. The graph of $p(x) = y$ is given in figure below for some polynomial $p(x)$. Find the number of zeroes of $p(x)$.



Q.8. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the co-efficients:

(a) $t^2 - 15$ (b) $6x^2 - 3 - 7x$

Q.9. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the co-efficients:

(a) $x^2 - 3$ (b) $u^2 + 4\sqrt{3}u - 15$



Q.10. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the co-efficients:

(a) $x^2 + 7x + 10$ (b) $2s^2 - (1 + 2\sqrt{2})s + \sqrt{2}$

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