

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
SI	Questions	A. Rational
1	Roots of the equation $2x^2$ - $7x + 3 = 0$ are	B. Irrational C. Complex D. None of these
2	Roots of the equation $x^2 + 5x - 1 = 0$ are	A. Rational B. Irrational C. Complex D. None of these
3	Roots of the equation $x^2 + 2x + 3 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
4	The roots of the equation $ax^2 + bx + x = 0$ are real and distinct if	A. b ² - 4ac <0 B. b ² - 4ac = 0 C. b ² - 4ac > 0 D. None of these
5	The roots of the equation ax^2 + bx + c = 0 are complex/imaginary if	A. b ² - 4ac < 0 B. b ² - 4ac = 0 C. b ² - 4ac > 0 D. None of these
6	The roots of the equation $ax^2 + bx + c = 0$ are real and equal if	A. b ² - 4ac < 0 B. b ² - 4ac = 0 C. b ² - 4ac > 0 D. None of these
7	If S and P are the sum and the product of roots of a quadratic equation, then the quadratic equation is	A. x ² + Sx - P = 0 B. x ² - Sx + P = 0 C. x ² - Sx - P = 0 D. X ² + Sx + P = 0
		A. c/a Bc/a
8	Question Image	C. b/a Db/a
9	If $3x^4 + 4x^3 + x - 5$ is divided by $x + 1$, then the reminder is	A. 0 B. 7
	ii 3x + 4x + x - 5 is divided by x + 1, then the reminder is	C7 D. 5
10	If x^3 - x^2 + 5x+ 4 is divided by x - 2, then the reminder is	C7
10		C7 D. 5 A. 0 B. 2 C. 18
	If x^3 - x^2 + 5x+ 4 is divided by x - 2, then the reminder is	C7 D. 5 A. 0 B. 2 C. 18 D. 14 A. 1 B. 0 C. 4
11	If x^3 - x^2 + 5x+ 4 is divided by x - 2, then the reminder is If x^4 - $10x^2$ - $2x$ + 4 is divided by x + 3, then the reminder is	C7 D. 5 A. 0 B. 2 C. 18 D. 14 A. 1 B. 0 C. 4 D. None of these A. 8 B. 6 C. 4
11	If x^3 - x^2 + 5x+ 4 is divided by x - 2, then the reminder is If x^4 - $10x^2$ - $2x$ + 4 is divided by x + 3, then the reminder is If x^3 + $4x^3$ - $2x$ + 5 is divided by x - 1, then the reminder is	C7 D. 5 A. 0 B. 2 C. 18 D. 14 A. 1 B. 0 C. 4 D. None of these A. 8 B. 6 C. 4 D. None of these A. P(a) B. P(-a) C. P(0)

16	If a polynomial $P(x)$ is divided by x - a , then the remainder is	A. P(o) B. P(-a) C. P(a) D. None of these
17	The quadratic formula is	
18	The solution set of x^2 - $5x + 6 = 0$ is	A. {1, 3} B. {2, 3} C. {1, 2} D. None of these
19	5x ³ + 3x - is a	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
20	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
21	Question Image	A. Linear equation B. Quadratic equation C. Cubic equation D. None of these
22	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 1 C. Polynomial of degree 2 D. Polynomial of degree n
23	w ¹¹ =	A. 0 B. 1 C. w D. w ²
24	w ⁻¹² =	A. 0 B. 1 C. w D. w ²
25	w ⁴ =	A. 0 B. 1 C. w D. w ²
26	w ⁻¹ =	A. 0 B. 1 C. w D. w ²
27	w ¹⁵ =	A. 0 B. 1 C. w D. w ²
28	x^4 - 3 x^3 + 3 x + 1 = 0 is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
29	Question Image	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
30	4 ^{1+x} + 4 ^{1-x} = 10 is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these