Mathematics ECAT Pre Engineering Chapter 6 Quadratic Equations Online Test

Sr	Questions	Answers Choice
1	A polynomial of arbitrary degree	A. f(x) = o B. f(x) = x C. f(x) = a D. f(x) = ax + b,a ≠ 0
2	For the equation $\|x^2\| + \|x\| -6 =0$, the roots are	A. One and only one real number B. Real with sum one C. Real with sum zero D. Real with product zero
3	If $3x^4+ 4x^3+ x - 5$ is divided by x + 1, then the reminder is	A. 0 B. 7 C. -7 D. 5
4	If a,βare the roots of the equation x2 - 8x + p = 0 and a2 + β2= 40,then value of p is	A. 8 B. 12 C. 10 D. 14
5	If 3x4 +4x3+x5is divided by x+1 , which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
6	If the roots of $ax^2+ bx + c =0$ are equal in magnitude but opposite in sign, then	A. a = 0 B. b = 0 C. c = 0 D. None of these
7	The solution of equation x2 + 2 = 0 in the set of real number is	A. Infinite set B. Singleton set C. Null set D. None of these
8	$5x^3+ 3x -$ is a _____	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
9	If the roots of $ax^2+ bx + c = 0$ (a > 0) be greater than unity, then	A. a + b + c = 0 B. a + b + c > 0 C. a + b + c < 0 D. None of these
10	The sum of the roots of the equation x2 -6x +2 = 0 is	A. -6 B. 2 C. -2 D. 6
11	If x-2 and x-1 both are factors of $x^3-3x^3+2x-4p$, then P must equal to	A. 1 B. 2 C. 0 D. -2
12	$x^4- 3x^3+ 3x + 1 = 0$ is called _____	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
13	A polynomial P(x)has a factor (x-a)if P(a) =	A. a B. x C. 1 D. 0
14	Question Image	A. 0 B. -1-w²
15	The positive value of k for which the equation x2 + kx + 64 = 0 has one of the roots 0	A. 4 B. 64 C. 8 D. All values of k
		A. Straight line

16	The graph of the quadratic equation is	B. Circle C. Parabola D. elipse
17	The standard form of the quadratic function f(x) = $-x^2$ +4x+2, is	A. (x-2)²+6 B. -(x-2)² + 6 C. (x-3)²+5 D. (x+4)²-7
18	The product of cube roots of unity is	A. Zero B. 1 C. -1 D. None of these
19	Question Image	A. 0 B. 1 C. 2 D. 3
20	Question Image	A. 1 B. 2 C. 0 D. 4