ECAT (Pre-Eng) Mathematics Chapter 6 Quadratic Equations

Sr	Questions	Answers Choice
1	The solution of the quadratic equation x2 -7x + 10=0, is	A. 2 B. 5 C. 2,5 D. 7
2	Question Image	
3	$4^{1+x}+4^{1-x}=10$ is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
4	The product of cube roots of unity is	A. Zero B. 1 C. -1 D. None of these
5	The condition for polynomial equation ax2 + bx + c = 0 to be quadratic is	A. a > 0 B. a < 0 C. a≠ 0 D. a≠ 0,b ≠ 0
6	If α,β are the roots of $ax^2+bx+c=0$ and $\alpha+h,\beta+h$ are the roots of $px^2+qx+r=0$, then h =	
7	Question Image	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
8	If x^4-10x^2-2x+4 is divided by x + 3, then the reminder is	A. 1 B. 0 C. 4 D. None of these
9	A polynomial P(x)has a factor (x-a)if P(a) =	A. a B. x C. 1 D. 0
10	The value of p for which both the roots of the equation 4x2- 20x + (25p2+ 15 p - 66) = 0 are less than 2, lies in	
11	If the roots of 3x2+kx + 12 = 0 are equal then k = _____	
12	Question Image	A. 1 B. 2 C. 0 D. 4
13	The roots of the equation $ax^2+bx+c=0$ are complex/imaginary if	A. b²- 4ac < 0 B. b²- 4ac = 0 C. b²- 4ac > 0 D. None of these
14	In a quadratic equation with leading co-efficient 1, a student reads the co-obtain the roots as - 15 and -4. The correct roots are	A. 6, 10 B. -6, -10 C. 8, 8 D. -8, -8
15	If the roots of ax2 + b =0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0,b > 0
16	If the roots of $ax^2-bx-c=0$ change by the same quantity, then the expression in a, b, c that does not change is	
17	Find a if 1 is a root of the equation $x^2+ax+2=0$	A. 3 B. -3 C. 2 D. 0
		A. {2, 5}

18	Roots of the equation $x^2 - 7x + 10 = 0$ are	B. {-2, 5} C. {2,5} D. {-2,-5}
19	Only one of the root of ax2 + bx + c =0, a≠ 0 is zero if	A. c = 0 B. c = 0,b≠ 0 C. b = 0,c = 0 D. b = 0,c≠ 0
20	If the equation x2+2x-3=0 and x2+3x-k=0 have a common root then the non - zero value of k is	A. 1 B. 3 C. 2 D. 4