ECAT (Pre-Eng) Mathematics Chapter 6 Quadratic Equations

Sr	Questions	Answers Choice
1	$4^{1+x}+4^{1-x}=10$ is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
2	Another name of quadratic equation is	A. Polynomial B. 2nd degree polynomial C. Linear equation D. simaltaneous equations
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	Roots of the equation $x^2+7x+12=0$ are	A. {3, -4} B. {-3, 4} C. {3, 4} D. {-3, -4}
5	Question Image	A. (-1, 2) B. (-1, 1) C. (1, 2) D. {-1}
6	$w^{-1}=$ _____	A. 0 B. 1 C. w D. w²
7	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
8	If a polynomial P(x) is divided by x + a, then the remiander is	A. P(a) B. P(-a) C. P(0) D. None of these
9	The quadratic equation $8\sec^2\theta-6\sec\theta+1=0$ has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
10	A quadratic equation has two	A. roots B. degree C. variables D. constants
11	In quadratic equation, if the replacement of y with -y leaves the equation unchanged, then the graph is	A. Straight line B. Circle C. Hyperbola D. Symmetric w.r.t.0
12	The quadratic formula is	
13	The set of real roots of the equation $\log_{(5x+4)}(2x+3)^3-\log_{(2x+3)}(10x^2+23x+12)=1$ is	A. {-1} B. {-3/5} C. Empty set D. {-1/3}
14	Question Image	A. Two real roots B. Two positive roots C. Two negative roots D. One positive and one negative root
15	If the roots of 3x2+kx + 12 = 0 are equal then k = _____	
16	(1+w)(1+w2)(1+w4)(1+w8)....50 factors	A. 0 B. -1 C. 1 D. 2

17	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
18	Question Image	A. 2 B. 4 C. 8 D. 16
19	Both the roots of the equation (x - b) (x - c) + (x - c)(x - a) + (x - a)(x - b) = 0 are always	A. Positive B. Negative C. Real D. None of these
20	w^4= _____	A. 0 B. 1 C. w D. w²