ECAT (Pre-Eng) Mathematics Chapter 6 Quadratic Equations

Sr	Questions	Answers Choice
1	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
2	The cube roots of 8 are	
3	Question Image	A. 15 B. 9 C. 7 D. 8
4	A quadratic equation has two	A. roots B. degree C. variables D. constants
5	The root of the quadratic equation are	A. 3 B. 2 C. 1 D. 4
6	A quadratic equation in x is an equation that can be witten in the form	A. ax²+ b = 0 B. ax³ +b²+c=0 C. ax² +bx+c=0 D. ax³ +bx³+cx=0
7	In quadratic equation f(x) = ax^2,if a >0, then the graph of parabola	A. Opens up B. Opens down C. close up D. symmetric w.r.t.x.axis
8	The vertex of the graph of the quadratic function f(x) =-x2+6x+1,is	A. (-3,10) B. (-3,-10) C. (3,10) D. (3,-10)
9	The minimum value of the quadratic function f(x) = 5 x 2-11,is	A. -11 B. 6 C. -7 D. 7
10	Another name of quadratic equation is	A. Polynomial B. 2nd degree polynomial C. Linear equation D. simaltaneous equations
11	Question Image	
12	Find a if 1 is a root of the equation x^2+ ax + 2 = 0	A. 3 B. -3 C. 2 D. 0
13	Question Image	A. 0 B. 1 C. 2 D. None of these
14	If the roots of 3x2+kx + 12 = 0 are equal then k = _____	
15	Question Image	A. b = c B. a = c C. a = c D. b = 0
16	(x-1) is a factor of	A. 2x³- 3x²+9 B. 2x³-5x-8 C. 48x²⁻46x-9 D. x⁹-1

17	If a polynomial p(x) is divided by x-c, then the remainder is	A. p(x) B. x-c C. c D. P(c)
18	The roots of ax2+bx+c=0 are	A. Rational ⇔ b2 -4 ac ≥ 0 B. Irrational ⇔ b2-4 ac > 0 C. Real ⇔ b2-4 ac ≠ 0 D. Rational⇔ b2-4 ac = 0
19	If the roots of ax^2+ b = 0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0, b > 0
20	If w+w2 is a root of (x+1)(x+2)(x+3)(x+4) = k, then	A. k=0 B. k=1 C. k=w D. k=w2