ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which of the following are valid roots of $3x^3 - 8x^2 - 5x + 6$	A. -1 B. 3 C. 1 D. Both A and B
2	The square matrix A is skew-symmetric when At =	A. -B B. -C C. -A D. -D
3	∀a,b ε R, ab = be is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
4	The n numbers $A_1,A_2,A_3,.....A_n$are called an arithmetic means between a and b if $a.A_1,A_2,A_3.....A_n$, b is _____	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence
5	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19 D. √(2&7)
6	If ax + bx + c =0 is satisfied by every value of x,then	A. b = 0,c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
7	Question Image	A. 0 B. 1 C. -1 D. None
8	Question Image	
9	The principal value of sin-1√(3/2) is	A. -π/3 B. π/3 C. 2π/3 D. π/2
10	Range of cos x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - { x | - 1 < x < 1}
11	∀x, y ∈ R, either x = y or x > y or x < y is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
12	The value of 7π /9 in terms of degrees is	A. 150^o B. 130^o C. 135^o D. 140^o
13	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon
14	If A and B are skew-symmetric then (AB)t is	A. At Bt B. AB C. -AB D. BA
15	Question Image	
16	A rule or correspondence that assigns to each element x in X a unique element y in Y is called a function from	A. X to X B. X to Y C. Y to X D. none of these
		A. Infinite

17	If 0 = {1,3,5.....}, then n (0) =	A. infinite B. Even numbers C. odd integers D. 99
18	Which of the following is skew symmetric matrix	
19	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A2 B. A5 C. A3 D. A7
20	If $x^3+ ax^2- a^2x - a^3$is divided by x + a, then the remainder is	A. 0 B. a³ C. 2a³ D. -2a³