ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The identity function is	A. surjective B. injuctive C. bijective D. into
2	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
3	The first three terms in the expansion of $(1 - x)^{-3}$are	A. 1 + 3x + 6x² B. 1 - 3x + 6x² C. -3 - 3x - 6x² D. 1 - 3x - 6x²
4	Every real number is	A. A complex number B. A rational number C. A natural number D. A prime number
5	Zero is	A. An irrational number B. A rational number C. A negative integer D. A positive number
6	Question Image	
7	The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets
8	The set {-1,1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
9	If f(x) = tan x then f(0) is	A. 0 B. 1 C. 1/2
10	Question Image	A. 0 B. 20 C. 90 D. 80
11	Cofactor of an element aij denoted by Aij is	A. (-2)i+j B. Mij C. (-1)i+j Mij D. None of above
12	The principal value of sin-1√(3/2) is	A. -π/3 B. π/3 C. 2π/3 D. π/2
13	For each natural number n, n (n+1) is	A. an even B. an odd C. multiple of 3 D. Irrational
14	The number of non zero rows in echelon form of a matrix is called	A. Order of matrix B. Rank of matrix C. Row operation D. None of these
15	For any equilateral r :R :η :r1 :r2 :r3 =	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1 :2 :2 :2
16	The area of a sector of a circular region of radius r is	A. 2π r B. π r² C. 1/2πr²

		D. π/6
17	Question Image	
18	Question Image	
19	Question Image	A. A B. 0 C. Unit vector D. None
20	If θ be angle between u,v and u,v determine the sides of a triangle then the third side opposite to angle θ has length	A. |u+v| B. |u|+|v| C. |u-v| D. |u|-|v|