ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The function sine and Cosine have the closed internal as their range	A. [1, 0] B. [-1, 1] C. [0, 1] D. [-1, 2]
2	Question Image	
3	x = 0 is in the solution of the inequality	A. x > 0 B. 3x + 4 < 0 C. x + 3 < 0 D. x - 2 < 0
4	Question Image	A. 2²- n - 1 B. 1 - 2⁻ⁿ C. n + 2⁻ⁿ-1 D. 2ⁿ- 1
5	Question Image	
6	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
7	Question Image	A. 0 B. 1 C. -1 D. None
8	The polar form of complex number x ≠ I y =	A. r cos θ+ r sin θ B. r cos θ+ is sin θ C. cos θ+ r sin θ D. i cos θ+ i sin θ
9	If 4 $^{6}P_{r}$= $^{6}P_{r+1}$, then r is equal to	A. 4 B. 3 C. 2 D. 1
10	Which symbolic notation represent unary operation ?	A. - B. ∨ C. ∧ D. ⇔
11	The matrix A is Hermitian when (A)' =	A. A B. -A C. A D. A'
12	Period of sin 3x is _____	
13	Question Image	A. A B. A' C. U D. None of these
14	If A⊆ B, and B is a finite set, then	A. n (a) < n(B) B. n(B)<(A) C. n(A)≤ n (B) D. n(A)≥ n(B)
15	The sum of complex number (a,b) and (c,d) is	
16	In R the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
17	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
		A. x ≠ 0 ∧ y ≠ 0

18	For any real numbers x,y,xy=o ⇒	B. x = 0 V y = 0 C. x = 0 D. y = 0
19	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set X∪Y = 54, then number of elements in set X∩Y =	A. 4 B. 3 C. 2 D. 1
20	An equation of the form ax + by = k is homogeneous linear equation when	A. b = 0, a = 0 B. a = 0,b ≠ 0 C. b = -0,a≠ 0 D. a≠ 0,b≠ 0, k = 0