ECAT Mathematics Chapter 5 Matrices and Detarminants Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	If for the matrix A,A5 = 1,then A-1=	A. A2 B. A3 C. A D. None of above
3	Question Image	A. x =0, y =4 B. x = -1, y = 2 C. x = 2, y = 3 D. x = 3, y = 4
4	Question Image	A. A²- 5A + 7I = 1 B. 2A²- 3A + 7I = 0 C. A²- 5A + I = 0 D. A²- 5A + 7I = 0
5	If A is a non-singular matrix then adj A is	A. Non-singular B. Symmetric C. Singular D. Non defined
6	If A is a non singular matrix then A^{-1}= _____	
7	Question Image	
8	Question Image	A. 0 B. 1 C. -2 D. 10
9	Question Image	A. 1 B. -1 C. 0 D. I
10	Question Image	A. a = -1/2, b = -1 B. a = 1, b = 2 C. a = 2, b = 3 D. None of above
11	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
12	Question Image	A. 0 B. 1 C. 2 D. 4
13	Question Image	
14	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
15	System of linear equations is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
16	Question Image	A. 3K B. K2 C. K3 D. K
17	Trival solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a.b and c

18	Question Image	A. 2 B. 4 C. 6 D. 8
19	Question Image	A. A(α) - A(β) B. A(α) + A(β) C. A(α-β) D. A(α+β)
20	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian