ECAT Mathematics Chapter 5 Matrices and Detarminants

Sr	Questions	Answers Choice
1	Question Image	A. I B. 14 I C. 0 D. None of these
2	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
3	The order of the matrix [1 2 3] is	A. 1 x 1 B. 3 x 3 C. 3 x 1 D. 1 x 3
4	Question Image	
5	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
6	Matrices A = [aij] 2 x 3 and B = [bij] 3 x 2 are suitable for	A. BA B. A2 C. AB D. B2
7	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
8	If A is a non-singular matrix then adj A is	A. Non-singular B. Symmetric C. Singular D. Non defined
9	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
10	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A2 B. A5 C. A3 D. A7
11	A diagonal matrix is always	A. Identity B. Triangular C. Scalar D. Non-singular
12	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
13	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
14	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
15	Question Image	D. all are correct
16	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
17	Question Image	

17	Question Image	
18	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
19	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
20	For a square matrix A, if A = A^t, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric