ECAT Mathematics Chapter 5 Matrices and Detarminants

Sr	Questions	Answers Choice
1	Two matrices A and B are conformable for the product AB if	A. Both A and B are square B. Both A and B are symmetric C. Number of rows of A = number of columns of B D. Number of columns of A = number of rows of B
2	Question Image	
3	Question Image	A. I3 B. rI3 C. r D. none
4	Question Image	
5	Question Image	
6	Question Image	A. 1 B. 0 C. 3 D. -1
7	Question Image	
8	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
9	Question Image	A. 0 B. 1 C. 2 D. 4
10	Question Image	A. a = 4, b = 1 B. a = 1, b = -4 C. a = 0, b = 4 D. a = 2, b = 4
11	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
12	For a square matrix A, if A = At, then A is called	A. Matrix B. Transpose C. Symmetric D. Non-symmetric
13	Rank of matrix [1 3 5 0] is	A. 1 B. 3 C. 2 D. 4
14	Cofactor of an element aij denoted by Aij is	A. (-2)i+j B. Mij C. (-1)i+j Mij D. None of above
15	The transport of a null matrix is	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
16	Question Image	A. 5 B. 15 C. 10 D. 20
17	An equation of the form ax + by = k is homogeneous linear equation when:	
18	Question Image	D. all

19	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
20	A square matrix A for which A^t= -A is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix