ECAT Mathematics Chapter 5 Matrices and Detarminants Online Test

Sr	Questions	Answers Choice
1	Question Image	A. k3 B. 0 C. 3k D. k6
2	If A and B are two matrices such that AB = B and BA = A then A2 + B2 =	A. 2 AB B. 2 BA C. A + B D. AB
3	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
4	If the trace of matrix A is 5, then the trace of the matrix 3A is	A. 3/5 B. 5/3 C. 8 D. 15
5	Question Image	
6	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
7	Question Image	A. a = -1/2, b = -1 B. a = 1, b = 2 C. a = 2, b = 3 D. None of above
8	If A = $[a_{ij}]$ is (m x n) matrix, then transpose of A is of the order	A. m x m B. m x n C. n x n D. n x m
9	Question Image	A. 16 B. 256 C. 64 D. 1024
10	System of linear equation is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
11	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
12	Question Image	A. I B. 14 I C. 0 D. None of these
13	The order of the matrix A is 3 x 2 and that of B is 2 x 3. The order of the matrix BA is	A. 3 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2
14	Question Image	
15	Question Image	
16	If A = [aij]mxpand B =[aij]pxnthen order of BA is	A. m x n B. p x n C. n x m D. None of these
17	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2

		D. 3 x 3
18	A square matrix A = [aij] is upper triangular when	A. cij = 0 B. bij = 0 C. aij = 0 for all i > j D. dij = 0
19	For any positive integer n	A. ABn = Bn A ⇔ AB = BA B. ABn = Bn A⇔ A,B are square matrices and AB = BA C. ABn = BnA⇔ A + B D. ABn = BnA ⇔ A and B are square matries
20	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent