

ECAT (Pre-Eng) Mathematics Chapter 5 Matrices and Determinants

Sr	Questions	Answers Choice
1	For a square matrix A, if $A = A^t$, then A is called	A. Matrix B. Transpose C. Symmetric D. Non-symmetric
2	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
3	Matrix multiplication is	A. Commutative B. Not commutative C. Not associative D. Not distributive
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	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
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 5 B. 15 C. 10 D. 20
7	Let A is a 3 x 3 matrix and B is its adjoint matrix. If $ B = 64$, then $ A =$	
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Scalar matrix B. Identity matrix C. Null matrix D. Symmetric matrix
9	The number of non zero rows in echelon form of a matrix is called	A. Order of matrix B. Rank of matrix C. Row operation D. None of these
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. At B. -A C. A D. A-1
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a = -1/2, b = -1$ B. $a = 1, b = 2$ C. $a = 2, b = 3$ D. None of above
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Orthogonal B. Involuntary C. Idempotent D. Nilpotent
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. -1 C. 0 D. I
		A. m x m

17	If order of A is $m \times n$, then order of A^t is	<p>B. $n \times n$ C. $m \times n$ D. $n \times m$</p>
18	<input type="text" value="Question Image"/>	<p>A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix</p>
19	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	<p>A. A^2 B. A^5 C. A^3 D. A^7</p>
20	<input type="text" value="Question Image"/>	<p>A. Singular B. Non-singular C. Adjoint D. None of above</p>