

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

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
4	Question Image	A. 1 B. 0 C. 3 D. -1
5	The transport of a square matrix is a	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
6	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
7	Question Image	A. 2 B. 4 C. 6 D. 8
8	Question Image	A. 3 x 2 B. 2 x 3 C. 3 x 3 D. 2 x 2
9	Cofactor of an element $a_{ij}$ is defined by	A. $(-1)^{i+j} A $ B. $(-1)^{i+j}M_{ij}$ C. $(-1)^{i+j}M_{ji}$ D. None of these
10	If $A = [a_{ij}]_{m \times p}$ and $B = [a_{ij}]_{p \times n}$ then order of $BA$ is	A. $m \times n$ B. $p \times n$ C. $n \times m$ D. None of these
11	Question Image	A. Identity matrix B. Diagonal matrix C. Null matrix D. Hermitian matrix
12	A non-homogeneous linear system $AX = B$ has no solution if	A. $ A  = 0$ B. $ A  \neq 0$ C. Rank (a) = no of variables D. Rank $\geq$ no of variables
13	The additive inverse of a matrix $A$ is	D. None of these
14	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
15	A square matrix $A = [a_{ij}]$ is lower triangular matrix when	A. $a_{ij} = 0$ for all $i < j$ B. $b_{ij} = 0$ C. $c_{ij} = 0$ D. $d_{ij} = 0$
16	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
17	If $A$ is a non singular matrix then $A^{-1} =$ _____	

18	Question Image	D. all are correct
19	Question Image	
20	Question Image	