

ECAT Mathematics Chapter 5 Matrices and Determinants

Sr	Questions	Answers Choice
1	If A is a skew-symmetric matrix of order n and P, any square matrix of order n. prove that P' AP is	A. Skew-symmetric B. Symmetric C. Null D. Diagonal
2	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
3	If A is a non singular matrix then $A^{-1} =$ _____	
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1, 2, 3 B. 1, 5, 9 C. 2, 5, 8 D. 3, 6, 9
5	In order of A is m x n and order of B is n x p then order of AB is	A. m x m B. n x n C. m x p D. p x m
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 9/4 B. 4/9 C. 1 D. None of these
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Null matrix B. Triangular matrix C. Unit matrix D. Rectangular matrix
8	Cofactor of an element a_{ij} denoted by A_{ij} is	A. $(-2)^{i+j}$ B. M_{ij} C. $(-1)^{i+j} M_{ij}$ D. None of above
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	Matrices are represented by	A. Natural numbers B. Real numbers C. Small letters D. Capital letters
11	$(ABC)'$ =	A. CBA' B. CBA C. $C'B'A$ D. $C'B'A'$
12	A matrix in which the number of rows is not equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. K/6 B. 2K C. 3K D. 6K
14	If for the matrix A, $A^5 = 1$, then $A^{-1} =$	A. A ² B. A ³ C. A D. None of above
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. abc C. 1/abc D. None of these
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. all are correct
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 5 C. -5 D. none

18

Question Image

- A. $-a - b - c$
- B. 1
- C. 0
- D. -1

19

Question Image

20

Question Image