

ECAT Mathematics Chapter 5 Matrices and Determinants

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. k3 B. 0 C. 3k D. k6
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. -1 C. 0 D. I
3	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
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Scalar matrix B. Identity matrix C. Null matrix D. Symmetric matrix
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. all
6	An equation of the form $ax + by = k$ is homogeneous linear equation when:	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -2 D. 10
8	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
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 3K B. K2 C. K3 D. K
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. At B. -A C. A D. A-1
12	If for the matrix A, $A^5 = 1$, then $A^{-1} =$	A. A2 B. A3 C. A D. None of above
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
14	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
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
17	Cofactor of an element a_{ij} is defined by	A. $(-1)^{i+j} A $ B. $(-1)^{i+j}M_{ij}$ C. $(-1)^{i+j}M_{ij}$ D. None of these

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Question Image

- A. A^t
- B. A^t
- C. $-A$
- D. A

19

Question Image

- A. Singular
- B. Non-singular
- C. Adjoint
- D. None of above

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Question Image

- A. Symmetric
- B. Skew-symmetric
- C. Hermitian
- D. Skew hermitian