

ECAT Mathematics Chapter 5 Matrices and Determinants

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. 2 D. 4
2	Question Image	A. Orthogonal B. Involuntary C. Idempotent D. Nilpotent
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	Question Image	A. -a -b -c B. 1 C. 0 D. -1
5	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian
6	Question Image	A. K/6 B. 2K C. 3K D. 6K
7	Question Image	
8	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
9	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix
10	For non-trival solution $ A $ is	A. non zero B. $A = 0$ C. $ A = 0$ D. $A^{-1} = 0$
11	Question Image	A. 2×2 B. 2×3 C. 3×2 D. 3×3
12	The square matrix A is skew Hermitian when $(A)^H =$	A. A B. A' C. $-A$ D. A^{-1}
13	Question Image	
14	Question Image	
15	Question Image	
16	Question Image	D. all are correct
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
18	If A is a non-singular matrix then $\text{adj } A$ is	A. Non-singular B. Symmetric C. Inverse

C. Singular
D. Non defined

19 Question Image

A. 9/4
B. 4/9
C. 1
D. None of these

20 Question Image

A. 16
B. 256
C. 64
D. 1024