

ECAT Mathematics Chapter 5 Matrices and Detarminants Online Test

Sr	Questions	Answers Choice
OI.	Questions	A. 1, 2, 3
1	Question Image	B. 1, 5, 9 C. 2, 5, 8
		D. 3, 6, 9
2	Question Image	
3	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A ² C. AB D. B ²
4	A diagonal matrix is always	A. Identity B. Triangular C. Scalar D. Non-singular
		A. a = 2, b = 3 B. a = 3, b = 2
5	Question Image	C. a = 2, b = 1, 2 D. a = 3, b = 3
6	The square matrix A is skew-symmetric when At =	AB BC CA DD
7	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
8	Question Image	
9	If A is a non-singular matrix then adj A is	A. Non-singular B. Symmetric C. Singular D. Non defined
10	If A is singular then A =	A. 1 B. 0 C. 2 D. None of these
11	The transpose of a zero matrix is a	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
12	Question Image	A. 0 B. abc C. 1/abc D. None of these
13	The transpose of a column matrix is a	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix
14	Which of the following is an identity matrix?	D. none of these
15	Minor of an element a _{ij} is denoted by	A. M _{ij} B. A _{ij} C. A D. None of these
16	Question Image	A. 1 B. 0 C. 3 D1
17	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square

		D. None
18	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
19	If A and B are two matrices such that AB = B and BA = A then A2 + B2 =	A. 2 AB B. 2 BA C. A + B D. AB
20	A and B be two square matrices and if their inverse exist the (AB)-1 =	A. A-1 B-1 B. AB-1 C. A-1B D. B-1A-1