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

Sr	Questions	Answers Choice
1	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
2	If A = [a_{ij}] is (m x n) matrix, then transpose of A is of the order	A. m x m B. m x n C. n x n D. n x m
3	Question Image	A. a = -1/2, b = -1 B. a = 1, b = 2 C. a = 2, b = 3 D. None of above
4	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
5	We solve the system of non-homogeneous linear equations by	A. a and b B. b and c C. c and a D. a,b and c
6	Question Image	A. 5 C. -5 D. none
7	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
8	Question Image	A. I B. |A| C. |A| I D. None of these
9	Question Image	A. a = 4, b = 1 B. a = 1, b = -4 C. a = 0, b = 4 D. a = 2, b = 4
10	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
11	A diagonal matrix in which the diagonal elements are equal is called a	A. Null matrix B. Identity matrix C. Scalar matrix D. Row matrix
12	For non-trival solution |A| is	A. A = 0 B. A^t= 0 C. |A| = 0 D. None of these
13	For trival solution |A| is	A. A B. |A| = 0 C. A = 0 D. |A|≠ 0
14	Question Image	
15	Question Image	A. 3K B. K2 C. K3 D. K
16	Question Image	A. At B. -A C. A

		D. A-1
17	Question Image	
18	Question Image	A. Singular B. Non-singular C. Adjoint D. None of above
19	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
20	If A is a non singular matrix then A^{-1}= _____	