ECAT Mathematics Chapter 5 Matrices and Detarminants

Sr	Questions	Answers Choice
1	Trival solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
2	Question Image	A. -3 B. -7 C. 1 D. 0
3	If A and B are two matrices such that AB = B and BA =A, then $A^2+ B^2=$	A. 2 AB B. 2 BA C. A + B D. AB
4	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
5	Question Image	
6	Question Image	A. 0 B. abc C. 1/abc D. None of these
7	For non-trival solution |A| is	A. non zero B. A = 0 C. |A| = 0 D. At = 0
8	Question Image	
9	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
10	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
11	Question Image	A. K/6 B. 2K C. 3K D. 6K
12	Question Image	A. 3 x 2 B. 2 x 3 C. 3 x 3 D. 2 x 2
13	System of linear equation is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
14	Question Image	A. At B. -A C. A D. A-1
15	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²
16	Question Image	A. 0 B. 1 C. -A D. -1

17	A and B be two square matrices and if their inverse exist, the $(AB)^{-1}$=	A. A⁻¹B⁻¹ B. AB⁻¹ C. A⁻¹B D. B⁻¹A⁻¹
18	A square matrix A = [aij] is upper triangular when	A. cij = 0 B. bij = 0 C. aij = 0 for all i > j D. dij = 0
19	If for the matrix A,A5 = 1,then A-1=	A. A2 B. A3 C. A D. None of above
20	Question Image	A. a²b²c² B. 4a²b²c² C. 4abc D. None