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

Sr	Questions	Answers Choice
1	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
2	Question Image	A. 3, -3, 11 B. 3, 3, 11 C. -3, 3, -11 D. -3, -3, 11
3	The order of the matrix A is 3 x 2 and that of B is 2 x 3. The order of the matrix BA is	A. 3 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2
4	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
5	Question Image	A. 1 B. 0 C. -1 D. 2
6	Question Image	
7	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
8	We also 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
9	Question Image	A. (2x+a+b+c) B. (a+b+c) C. (a+b+c+x) D. 0
10	Question Image	D. all are correct
11	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
12	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
13	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
14	Question Image	A. -a -b -c B. 1 C. 0 D. -1
15	If A is any matrix then its additive inverse is	A. A B. A⁻¹ C. A^t D. -A
16	The order of the matrix [1 2 3] is	A. 1 x 1 B. 3 x 3 C. 3 x 1 D. 1 x 3

17	(ABC)' =	A. CBA' B. CBA C. C'B'A D. C'B'A'
18	Minor of an element $a_{ij}$is denoted by	A. M_{ij} B. A_{ij} C. |A| D. None of these
19	If for the matrix A,A5 = 1,then A-1=	A. A2 B. A3 C. A D. None of above
20	The additive inverse of a matrix A is	D. None of these