ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	Question Image	A. (2x4) B. (2x7) C. (2x3) D. (7x2)
2	Question Image	
3	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
4	In order of A is m x n and order of B is n x p then order of AB is	A. m x m B. n x n C. m x p D. p x m
5	The order of the matrix A is 3 x 5 and that of B is 2 x 3.The order of the matrix BA is	A. 2 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2
6	(ABC)' =	A. CBA' B. CBA C. C'B'A D. C'B'A'
7	The number of non zero rows in echelon form of a matrix is called	A. Order of matrix B. Rank of matrix C. Row operation D. None of these
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. 1, 2, 3 B. 1, 5, 9 C. 2, 5, 8 D. 3, 6, 9
10	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
11	A non-homogeneous linear system AX = B has no solution if	A. $|A| = 0$ B. $|A| \neq 0$ C. Rank (a) = no of variables D. Rank > no of variables
12	Question Image	D. all are correct
13	Question Image	A. -a -b -c B. 1 C. 0 D. -1
14	An equation of the form ax + by = k is homogeneous linear equation when	A. b = 0, a = 0 B. a = 0,b $\neq$ 0 C. b = -0,a$\neq$ 0 D. a$\neq$ 0,b$\neq$ 0, k = 0
15	If A = |aij| 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
16	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

17	Question Image	A. 1 B. -1 C. 0 D. I
18	Question Image	D. all
19	A diagonal matrix is always	A. Identity B. Triangular C. Scalar D. Non-singular
20	Question Image	A. Null matrix B. Triangular matrix C. Unit matrix D. Rectangular matrix