ECAT Mathematics Chapter 5 Matrices and Detarminants

Sr	Questions	Answers Choice
1	An equation of the form ax + by = k is homogeneous linear equation when:	
2	Question Image	
3	Question Image	
4	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
5	If for the matrix A, A^5= I, then A^{-1}=	A. A² B. A³ C. A D. None of above
6	If A is a skew-symmetric matrix of order n and P, any square matrix of order n.prove that P' AP is	A. Skew-symmetric B. Symmetric C. Null D. Diagonal
7	Question Image	A. Null matrix B. Triangular matrix C. Unit matrix D. Rectangular matrix
8	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
9	Question Image	
10	For a square matrix A, if A = At, then A is called	A. Matrix B. Transpose C. Symmetric D. Non-symmetric
11	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
12	Question Image	
13	Question Image	A. x =0, y =4 B. x = -1, y = 2 C. x = 2, y = 3 D. x = 3, y = 4
14	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
15	Question Image	A. 0 B. abc C. 1/abc D. None of these
16	Question Image	A. a = 4, b = 1 B. a = 1, b = -4 C. a = 0, b = 4 D. a = 2, b = 4
17	Question Image	A. 3 x 2 B. 2 x 3 C. 3 x 3 D. 2 x 2
18	Which of the following is an identity matrix?	D. none of these
19	Question Image	

20	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3