ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	Which of the following is skew symmetric matrix	
2	If for the matrix A, $A^5 = I$, then $A^{-1} =$	A. A² B. A³ C. A D. None of above
3	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
4	Question Image	
5	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
6	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
7	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
8	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
9	Question Image	A. A(α) - A(β) B. A(α) + A(β) C. A(α-β) D. A(α+β)
10	Question Image	A. I B. |A| C. |A| I D. None of these
11	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
		A. A²- 5A + 7I = 1

12	Question Image	B. 2A²- 3A + 7I = 0 C. A²- 5A + I = 0 D. A²- 5A + 7I = 0
13	Matrix multiplication is	A. Commutative B. Not commutative C. Not associative D. Not distributive
14	The transport of a square matrix is a	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
15	Question Image	A. Null matrix B. Triangular matrix C. Unit matrix D. Rectangular matrix
16	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
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	Question Image	D. all are correct
19	A square matrix A = [aij] is lower triangular matrix when	A. aij = 0 for all i<j B. bij = 0 C. cij = 0 D. dij = 0
20	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix