ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	The square matrix A is skew Hermitian when (A)'=	A. A B. A' C. -A D. A
2	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
3	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
4	If A is any matrix then its additive inverse is	A. A B. A⁻¹ C. A^t D. -A
5	Question Image	
6	Question Image	A. I B. 14 I C. 0 D. None of these
7	Question Image	
8	Question Image	D. all are correct
9	If the trace of matrix A is 5, then the trace of the matrix 3A is	A. 3/5 B. 5/3 C. 8 D. 15
10	For any positive integer n	A. ABn = Bn A ⇔ AB = BA B. ABn = Bn A⇔ A,B are square matrices and AB = BA C. ABn = BnA⇔ A + B D. ABn = BnA ⇔ A and B are square matries
11	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
12	Trival solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
13	The transport of a square matrix is a	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
14	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
15	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
16	If A is singular then |A| = _____	A. 1 B. 0 C. 2 D. None of these
		A. m x m

17	If A = |aij| is (m x n) matrix then transpose of A is of the order	B. m x n C. n x n D. n x m
18	Question Image	A. 0 B. 1 C. 2 D. 3
19	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
20	The transpose of a column matrix is a _____	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix