ECAT Mathematics Chapter 5 Matrices and Detarminants

Sr	Questions	Answers Choice
1	If A is any matrix then its additive inverse is	A. A B. A⁻¹ C. A^t D. -A
2	Question Image	A. At B. -A C. A D. A-1
3	If A = [a_{ij}] 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
4	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
5	Question Image	A. A(α) - A(β) B. A(α) + A(β) C. A(α-β) D. A(α+β)
6	Question Image	
7	Trival solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
8	The square matrix A is skew Hermitian when (A)'=	A. A B. A' C. -A D. A
9	Question Image	A. Singular B. Non-singular C. Adjoint D. None of above
10	Question Image	D. all are correct
11	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
12	Question Image	

13	Question Image	
14	Question Image	A. 9/4 B. 4/9 C. 1 D. None of these
15	A square matrix A for which $A^t = A$ is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
16	Question Image	A. Null matrix B. Triangular matrix C. Unit matrix D. Rectangular matrix
17	Question Image	A. I B. 14 I C. 0 D. None of these
18	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
19	Matrix multiplication is	A. Commutative B. Not commutative C. Not associative D. Not distributive
20	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian