ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	Question Image	A. Scalar matrix B. Identity matrix C. Null matrix D. Symmetric matrix
2	If the matrices A and B are conformable for multiplication then $(AB)^t$= _____	A. AB B. A^tB^t C. B^tA^t D. A^tB
3	Question Image	A. x =0, y =4 B. x = -1, y = 2 C. x = 2, y = 3 D. x = 3, y = 4
4	The square matrix A is skew-symmetric when At =	A. -B B. -C C. -A D. -D
5	Question Image	A. 1 B. 0 C. -1 D. 2
6	Question Image	
7	Question Image	A. a = 2, b = 3 B. a = 3, b = 2 C. a = 2, b = 1, 2 D. a = 3, b = 3
8	Question Image	A. (2x+a+b+c) B. (a+b+c) C. (a+b+c+x) D. 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	
11	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian
12	If A is any matrix then its additive inverse is	A. A B. A⁻¹ C. A^t

		D. -A
13	Question Image	A. A⁻ B. A^t C. -A D. A
14	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
15	Matrices A = [aij] 2 x 3 and B = [bij] 3 x 2 are suitable for	A. BA B. A2 C. AB D. B2
16	Question Image	
17	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
18	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
19	Cofactor of an element $a_{ij}$is defined by	A. (-1)^{i+j}|A| B. (-1)^{i+j}M_{ij} C. (-1)^{i+j}M⁻¹ D. None of these
20	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