ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	If A and B are skew-symmetric then (AB)t is	A. At Bt B. AB C. -AB D. BA
2	Question Image	
3	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
4	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
5	If order of A is m x n, then order of A^t is	A. m x m B. n x n C. m x n D. n x m
6	Question Image	
7	Two matrices A and B are conformable for the product AB if	A. Both A and B are square B. Both A and B are symmetric C. Number of rows of A = number of columns of B D. Number of columns of A = number of rows of B
8	Question Image	A. 16 B. 256 C. 64 D. 1024
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	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
11	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
12	Question Image	
13	Question Image	A. I B. 14 I C. 0 D. None of these
14	Question Image	A. a²b²c² B. 4a²b²c² C. 4abc D. None
15	Question Image	
16	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
17	For non-trival solution |A| is	A. non zero B. A = 0

		C. |A| = 0 D. At = 0
18	Which of the following is skew symmetric matrix	
19	For a square matrix A, if A = At, then A is called	A. Matrix B. Transpose C. Symmetric D. Non-symmetric
20	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