ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
3	The order of the matrix [1 2 3] is	A. 1 x 1 B. 3 x 3 C. 3 x 1 D. 1 x 3
4	Question Image	D. all are correct
5	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
6	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
7	If A and B are skew-symmetric then (AB)t is	A. At Bt B. AB C. -AB D. BA
8	Question Image	A. A B. -A C. A^t D. A⁻
9	Question Image	A. (2x4) B. (2x7) C. (2x3) D. (7x2)
10	Question Image	
11	Question Image	A. 5 B. 15 C. 10 D. 20
12	If for the matrix A,A5 = 1,then A-1=	A. A2 B. A3 C. A D. None of above
13	Question Image	A. a²b²c² B. 4a²b²c² C. 4abc D. None
14	Question Image	
15	A non-homogeneous linear system AX = B has no solution if	A. |A| = 0 B. |A|≠ 0 C. Rank (a) = no of variables D. Rank > no of variables
16	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
17	If A is any matrix then its additive inverse is	A. A B. A⁻¹ C. A^t

		D. -A
18	Question Image	A. 0 B. 1 C. -2 D. 10
19	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
20	Question Image	A. I B. |A| C. |A| I D. None of these