ECAT Mathematics Chapter 5 Matrics and Determinants

Sr	Questions	Answers Choice
1	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
2	If A is any matrix then its additive inverse is	A. A B. A⁻¹ C. A^t D. -A
3	Question Image	A. 9/4 B. 4/9 C. 1 D. None of these
4	Question Image	
5	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
6	Question Image	A. 1 B. 0 C. -1 D. 2
7	If A is a non singular matrix then A^{-1}= _____	
8	Question Image	
9	The square matrix A is skew-symmetric when At=	A. -B B. -C C. -A D. -D
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	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
12	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
13	Matrices A = [aij] 2 x 3 and B = [bij] 3 x 2 are suitable for	A. BA B. A2 C. AB D. B2
14	For a square matrix A, if A = A^t, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
15	Question Image	
16	Question Image	A. 5 C. -5 D. none
17	Question Image	A. 1, 2, 3 B. 1, 5, 9 C. 2, 5, 8 D. 3, 6, 9

18	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²
19	The number of non zero rows in echelon form of a matrix is called	A. Order of matrix B. Rank of matrix C. Row operation D. None of these
20	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