11th Class FA Mathematics Chapter 3 Online Test

Sr	Questions	Answers Choice
1	Question Image	A. 25 B. 20 C. 40 D. 2a + 2b + 2c
2	If A is a square matrix order 3 × 3 the |kA| equals:	A. k |A| B. k²|A| C. k³ |A| D. k⁴ |A|
3	If each element of a 3 × 3 matrix A is multiplied by 3, then the determinant of the resulting matrix is:	A. |A|³ B. 27|A| C. 3|A| D. 9|A|
4	For a square matrix A, |A| equals:	A. A^t B. |A^t| C. -|A^t| D. -A^t
5	If A = [a_{ij}], B = [b_{ij}] and AB = 0 then:	A. A = 0 B. B = 0 C. either A = 0 or B = 0 D. A & B not necessarily zero
6	If A = [aij] and B = [bij] are two matrices of same order r × s, then order of A - B is:	A. r - s B. r × s C. r + s D. none of these
7	The trivial solution of the homogeneous linear equations is:	A. (1, 0, 0) B. (0, 1, 0) C. (0, 0, 1) D. (0, 0, 0)
8	If a matrix A is symmetric as well as skew symmetric, then:	A. A is null matrix B. A is unit matrix C. A is triangular matrix D. A is diagonal matrix
9	Question Image	A. scalar matrix B. diagonalmatrix C. triangularmatrix D. none of these
10	Question Image	A. scalarmatrix B. diagonalmatrix C. lower triangularmatrix D. uppertriangularmatrix
11	Question Image	A. scalar matrix B. diagonalmatrix C. lower triangularmatrix D. upper triangularmatrix
12	If A is a square matrix, then:	A. |A^t| = A B. |A^t| = -A C. |A^t| = |A| D. A^t= A
13	If any two rows of a square matrix are interchanged, the determinant of the resulting matrix:	A. is zero B. is multiplicative inverse of the determinant of the original matrix C. is additive inverse of the determinant the original matrix D. none of these
14	If each element in any row or each element in any column of a square matrix is zero, then value of the determinant is:	A. 0 B. 1 C. -1 D. none of these
15	Question Image	A. 9 B. -9 C. -6

		D. none
16	Question Image	A. 3 B. -3 C. 1/3 D. -1/3
17	If two rows (or two columns) in a square matrix are identical (i.e. corresponding elements are equal), the value of the determinant is:	A. 0 B. 1 C. -1 D. ±1
18	Question Image	A. 5 B. 14 C. 20 D. 6
19	Question Image	A. 2 B. -2 C. 5 D. -5
20	Question Image	A. 40 B. -40 C. 26 D. -26