Mathematics Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	If A is a square matrix, then:	A. $\|A^t\| = A$ B. $\|A^t\| = -A$ C. $\|A^t\| = \|A\|$ D. $A^t = A$
2	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
3	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
4	Question Image	A. 9 B. -9 C. -6 D. none
5	Question Image	A. 3 B. -3 C. 1/3 D. -1/3
6	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
7	Question Image	A. 5 B. 14 C. 20 D. 6
8	Question Image	A. 2 B. -2 C. 5 D. -5
9	Question Image	A. 40 B. -40 C. 26 D. -26
10	Question Image	A. 1 B. -5 C. -1 D. none
11	Minors and co-factors of the elements in a determinant are equal in magnitude but they may differ in:	A. order B. position C. sign D. symmetry
12	If AB = BA = I, then A and B are:	A. equal to each other B. multiplicative inverse of each other C. additive inverse of each other D. both singular
13	A^{-1} exists if A is:	A. singular B. nonsingular C. symmetric D. none
14	Question Image	A. zero B. non-singular C. singular D. none of these
15	If A is non singular matrix then A^t is:	A. singular B. nonsingular C. symmetric

16	Question Image	A. ab - cd = 0 B. ac - bd = 0 C. ad - bc = 1 D. ad - bc = 0
17	Question Image	D. diagonal matrix
18	If A and B are two matrices, then:	A. A B = O B. AB = BA C. AB = I D. AB may not be defined
19	If A is a square matrix, then A - A^t is:	
20	If A is a square matrix, then A + A^t is:	