





34	Question Image	A. 2 B. -2 C. 5 D. -5
35	Question Image	A. 5 B. 14 C. 20 D. 6
36	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. $\pm 1$
37	Question Image	A. 3 B. -3 C. $1/3$ D. $-1/3$
38	Question Image	A. 9 B. -9 C. -6 D. none
39	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
40	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
41	If A is a square matrix, then:	A. $ A^t  =  A $ B. $ A^t  = - A $ C. $ A^t  =  A $ D. $A^t = A$
42	Question Image	A. scalar matrix B. diagonal matrix C. lower triangular matrix D. upper triangular matrix
43	Question Image	A. scalar matrix B. diagonal matrix C. lower triangular matrix D. upper triangular matrix
44	Question Image	A. scalar matrix B. diagonal matrix C. triangular matrix D. none of these
45	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
46	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)
47	If $A = [a_{ij}]$ and $B = [b_{ij}]$ are two matrices of same order $r \times s$ , then order of $A - B$ is:	A. $r - s$ B. $r \times s$ C. $r + s$ D. none of these
48	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
49	For a square matrix A, $ A^t $ equals:	A. $ A^t $ B. $ A^t $ C. $- A^t $ D. $- A^t $
50	If each element of a $3 \times 3$ 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 $
51	If A is a square matrix order $3 \times 3$ the $ kA $	A. $k A $ B. $k^2 A $

51 equals:    
 C.  $k^3 |A|$    
 D.  $k^4 |A|$

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52  Question Image    
 A. 25   
 B. 20   
 C. 40   
 D.  $2a + 2b + 2c$

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