

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS)
APTITUDE TEST

MATRICES AND DETERMINALS – TEST 46

1. Transpose of a rectangular matrix is a
 - a) rectangular matrix
 - b) diagonal matrix
 - c) square matrix
 - d) scalar matrix
2. Transpose of a column matrix is
 - a) zero matrix
 - b) diagonal matrix
 - c) column matrix
 - d) row matrix
3. Two matrices A and B are multiplied to get AB if
 - a) both are rectangular
 - b) both have same order
 - c) no of columns of A is equal to columns of B
 - d) no of rows of A is equal to no of columns of B
4. If $|A| = 0$, then A is
 - a) zero matrix
 - b) singular matrix
 - c) non-singular matrix
 - d) 0
5. If A is a symmetric matrix, then $A^t =$
 - a) A
 - b) $|A|$
 - c) 0
 - d) diagonal matrix
6. Additive inverse of a matrix A is
 - a) A
 - b) $|A|$
 - c) A^2
 - d) $\text{adj } A/|A|$
7. In a matrix multiplication for A and B, $(AB)^t$
 - a) $A^t B^t$
 - b) $B^t A^t$
 - c) $1/AB$
 - d) AB
8. For a non-trivial solution $|A|$ is
 - a) $|A| > 0$
 - b) $|A| < 0$
 - c) $|A| = 0$
 - d) $|A| \neq 0$
9. Two matrices A and B are multiplied to get BA if
 - a) both are rectangular
 - b) both have same order
 - c) no of columns of A is equal to columns of B
 - d) both are square matrices
10. For any non- singular matrix A, $A^{-1} =$
 - a) $|A| \text{adj } A$
 - b) $1 / |A| \text{adj } A$
 - c) $\text{adj } A/|A|$
 - d) None of Above
11. If the order of matrix A is $m \times p$. And the order of B is $p \times n$. Then the order of matrix AB is ?
 - a) $n \times p$
 - b) $m \times n$
 - c) $p \times n$
 - d) $n \times m$
12. If A and B are matrices, then which from the following is true ?
 - a) $AB \neq BA$
 - b) $(At)^t \neq A$
 - c) $A + B \neq B + A$
 - d) all are true
13. The number of non-zero rows in an echlon form is called ?
 - a) rank of a matrix
 - b) cofactor of the matrix
 - c) reduced echlon form
 - d) conjugate of the matrix
14. Transpose of a rectangular matrix is a
 - a) scalar matrix
 - b) square matrix
 - c) diagonal matrix
 - d) rectangular matrix
15. Transpose of a column matrix is
 - a) row matrix
 - b) zero matrix

