# Quiz-5

Q.1 In a square matrix if $a_{ij}=a_{ji}$ for all i and j then the matrix is said to be a ____ matrix.

(A) diagonal (B) upper triangular (C) lower triangular (D) symmetric

Q.2 In a square matrix if $a_{ij}=-a_{ji}$ for all i and j then the matrix is said to be a ____ matrix.

(A) diagonal (B) upper triangular (C) symmetric (D) skew-symmetric

Q.3 In a square matrix if $a_{ij}=0$ for all $i \neq j$ then the matrix is said to be a ____ matrix.

(A) diagonal (B) upper triangular (C) symmetric (D) skew-symmetric

Q.4 A square matrix is said to be invertible if it has _____.

(A) full set of pivots (B) missing pivot (C) both A and B (D) none of these

Q.5 If A is an upper triangular matrix then in its LU-factorization, L matrix is _____.

(A) a scalar matrix (B) an identy matrix (C) a diagonal matrix (D) none of the above