

Business Mathematics - 11th Class Business Math Chapter 5 Short Questions Preparation

Q1. Define scalar matrix.

Ans 1: Scalar Matrix: A diagonal matrix in which each element of the principal diagonal is same but not equal to 1 is called scalar matrix.

Q2. Name any three types of matrix.

Ans 1: Types of matrices are:

Ans 2: i) Row matrix

Ans 3: ii) Column matrix

Ans 4: iii) Rectangular matrix

Ans 5: iv) Square matrix

Q3. What is the condition for two matrices to be conformable for multiplication.

Ans 1: Two matrices A and B are confirmed for multiplication. AB, if number of columns of A is equal to number of rows of B. The new matrix AB will contain the number of rows as in A and number of columns as in B.

Q4. Define identity matrix.

Ans 1: The unit of multiplicative identity of matrices are defined as. A scalar matrix in which principal diagonal elements are equal to "1" is called a unit or identity matrix"

Q5. Define null matrix

Ans 1: Null Matrix: If each every element of a matrix is zero then that matrix is called null matrix. Null matrix is also called zero matrix and denoted by "0"

Q6. Define diagonal matrix.

Ans 1: Diagonal matrix: A square matrix in which all other elements except the principal diagonal elements are zero and there is at least one element in the principal diagonal which is non-zero is called diagonal matrix.

Q7. What is the condition for two matrices to be conformable for multiplication?

Ans 1: Two matrices A and B are confirmed for multiplication AB, if number of columns of A is equal to number of rows of B. The new matrix AB will contain the number of rows as in A and number of columns as in B.

Q8. What is square matrix.

Ans 1: Square Matrix: A matrix having equal number of rows and column is called square matrix.

Q9. Define matrix.

Ans 1: Matrix: Matrix is a block presentation of two-way classified set of information arranged in rectangular form of rows and columns.

Q10. Define row matrix and give one example.

Ans 1: Row Matrix: A matrix having single row but having any number of columns is called row matrix.
Example: $A = [3 \ 4 \ 5 \ 6]$
a row matrix, Row matrix is also called row vector.
