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

Q1. Define null matrix

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

Q2. Define identity matrix.

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

Q3. What is square matrix.

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

Q4. 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.

Q5. 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.

Q6. 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

Q7. 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.

Q8. 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.

Q9. What is the condition for two matrices to be conformatablve 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 matric AB will contain the number of rows as in A and number of columns as in B.

Q10. 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 princpal diagonal which is non -zero is called diagonal matrix.
