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First Year B.Com.
COM-11102(b) : Business Mathematics
(Semester I)

Program: BCom
Program Specific: BCom
Course Type: Major
Paper :

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) Question 1 is compulsory
- 2) Answer any FIVE questions from Q 2 to Q 8.
- 3) Answer each question on separate page.
- 4) Use of calculator is allowed.

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Q 1 Answer the questions in brief

Marks 5

- (a) Explain the term Shareholder.
- (b) Explain the term Row Matrix.
- (c) Simple interest of a certain sum of money for 5 years is Rs. 250. What will be the simple interest for 6 years?
- (d) Explain the term Dividend.
- (e) When all elements in a matrix are zero the matrix is called as

Solve any 5 questions from the following...

5 Marks each x 5 = 25

- Q 2** What will be the simple interest on Rs. 45,000 at 10% p.a. for 4 years?
- Q 3** Which investment is more profitable? 20% at 250 or 25% at 350. (Face value = Rs. 100)
- Q 4** Calculate amount of Rs. 5,000 for 4 years at 12% p.a. compounded yearly.
- Q 5** Evaluate the determinant of the matrix... $A = \begin{bmatrix} 2 & 1 & 3 \\ 1 & 0 & 1 \\ 2 & 1 & 1 \end{bmatrix}$
- Q 6** Sachin invested in 18% at 200 and Virat invested in 20% at 250. Whose investment will give more returns? (Face value = Rs. 100)
- Q 7** If $A = \begin{bmatrix} 1 & 3 \\ 2 & 5 \end{bmatrix}$ $B = \begin{bmatrix} 3 & 4 \\ 2 & 1 \end{bmatrix}$ $C = \begin{bmatrix} 1 & 3 \\ 0 & 4 \end{bmatrix}$ Calculate $2A + 3B - 2C$
- Q 8** Find the difference between Compound Interest and Simple Interest on Rs. 5,000 for 2 years at 10% p.a.
