Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐ **Total No. of Pages : 02**

Total No. of Questions : 07

B.Com. (2011 & Onward) (Sem.–1)

BUSINESS MATHEMATICS

Subject Code : BCOP-104

Paper ID : [B1104]

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION-A

1. Write briefly :

(a) Arithmetic Progression

(b) Yield to maturity

(c) Chain Rule (In course of Exchange Rate)

(d) Compound Interest

(e) Accured Interest

(f) Cross Rate

(g) Commissions

(h) Foreign Exchange Market

(i) Formula to Calculate Simple Interest

(j) n^{th} term in Geometric Progression

SECTION-B

2. (a) The first term of AP is 10 and last term is 50. If the sum of all terms is 480. Find the common difference and no. of terms.

   (b) The sum of an infinite GP is $\frac{1}{3}$ and first term is $\frac{1}{4}$. Find the GP.

3. What do you mean by exchange rate ? Give a detailed note on various methods to determine exchange rate.

4. Write notes on following :

   (a) Convertible bonds

   (b) Callable bonds

5. The difference between the simple and compound interest on a certain sum of money for 2 years at 5% per annum is Rs. 2.50. Find the sum.

6. A man borrows Rs. 4000 at 5% and promises to pay off the loan in 30 instalments beginning at the end of the first year. What is the annual payment necessary?

7. Write notes on :

   (a) Concept of Ratio

   (b) Hedging of Funds