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No. of Pages : 02

Total No. of Questions : 07

B.Com. (Sem.-1st)

BUSINESS MATHEMATICS

Subject Code : BCOP-104 (2011 & Onward Batch)

Paper ID : [B1104]

Time : 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

- 1. Write briefly :
 - (a) Geometric Progression
 - (b) Amortisation
 - (c) Ratio
 - (d) Convertible Bonds
 - (e) Cross Rate
 - (f) Time Value of Money
 - (g) Promissory Note
 - (h) Accrued Interest
 - (i) Yield to Maturity
 - (j) Compound Interest

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SECTION-B

- 2. (a) The first term of an A.P. is 10, the last term is 50. If the sum of all terms is 480, find the common difference and the number of terms.
 - (b) The sum of an infinite G.P. is 1/3 and the first term is 1/4. Find the G.P.
- 3. You deposit Rs. 4,000 each month into a retirement account paying 8% interest. How much will you have in 25 years when you retire?
- 4. You are considering the purchase of two different insurance annuities. Annuity A will pay you Rs. 10,000 each year for eight years. Annuity B will pay you Rs. 8,000 per year for 12 years. Assuming your money is worth 10% and that each costs the same to purchase today, which annuity would you prefer?
- 5. Rahim, Karim and Gaffur start a business each investing Rs. 2,00,000. After 5 months Sultan withdrew Rs. 50,000, Ahmed withdrew Rs. 40,000 and Kasim invests Rs. 60,000 more. At the end of the year, a total profit of Rs. 7,20,000 was recorded. Find the share of each.

	Bond A	Bond B
Face Value	Rs. 100	Rs. 200
Coupon Rate	9%	12%
Time to Maturity	5 Years	5 Years
Current Market Price	Rs. 100	Rs. 200
Coupon Payment	Annually	Bi-annually

6. Consider two bonds 'A' and 'B'. They have the following characteristics :

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