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. Solve the following :

a) Find the S.I. on Rs. 500 for 3 yrs at 4%. Find the amount.

b) Define cross rate.

c) What is compound conversion?

d) Find the dividend receive on 80 shares of Rs. 25 each, if rate of dividend is 9%.

e) Find the rate of interest if Principle = Rs. 2000 for 5 yrs. S.I. is Rs. 900.

f) Find the 10^{th} terms of a G.P.

5/2, 5/4, 5/8…….

g) Find the M.P. (market price) of a share, if person get Rs. 175 by investing Rs. 3850, when rate of dividend is 5% and face value = 100.

h) Find the 8^{th} term of A.P.

5 + 10 + 15 + 20 + …….

i) Define commission?

j) Difference between simple interest and compound interest

SECTION-B

2. Find the sum of series

3 + 33 + 333 + 3333 +……. (10)

3. Keshav deposits Rs. 2500 in a bank at rate of 9% per annum. If the interest is deposited in his account after 6 months, then what will be amount deposited in his account after 1½ years? (10)

4. a) A gas stove originally cost Rs. 500 and was discounted at 10%. After two months it was sold after being discounted 15% what was sale price. (5)

b) Two numbers in ratio of 5:7 and their sum is 36. Find the numbers. (5)

5. Find the sum of series

72 + 70 + 68 + ….. + 40 (10)

6. A man has a choice invested in 100 Rs. share of two firms at 120 each or 132 each. The first Firm pays 5% dividend and second Firm pays 6% dividend. How much more will be his return if he invest Rs. 26,400 with the firm from which he gets better return on investment. (10)

7. a) Write a brief note on Foreign exchange market. (5)

b) If 1$ (dollar) = Rs. 48 & 1£ (Pound) = 78 Rs. what is the $/£ exchange rate? (5)