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Total No. of Pages : 02

Total No. of Questions : 07

B.Com. (2013 to 2017 Batch) (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****Q1. Answer briefly :**

- a) What is arithmetic mean?
- b) What is geometric mean?
- c) Define cost of installment.
- d) What is amortization of loan?
- e) Define commission.
- f) Define discounts.
- g) What is rate of yield?
- h) What is accrued interest?
- i) What is foreign exchange market?
- j) What is cross rate?

### SECTION-B

- Q2. Find the sum of the first 35 terms of an Arithmetic Progression whose third term is 7 and seventh term is two more than thrice of its third term.
- Q3. Given the terms  $a_{10} = \frac{3}{512}$  and  $a_{15} = \frac{3}{16384}$  of a geometric sequence, find the exact value of the term  $a_{30}$  of the sequence.
- Q4. Deva took a loan of Rs. 1200 with simple interest for as many years as the rate of interest. If she paid Rs. 432 as interest at the end of the loan period, what was the rate of interest?
- Q5. Discuss the uses of commissions and discounts in business management.
- Q6. Discuss the concepts of mark up and ratios to manage business.
- Q7. Explain foreign exchange market in details with the help of suitable examples.

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