

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 :

- Differentiate between A.P & G.P.
- What do you mean by the terms “Mint-Par of Exchange”?
- Explain different kinds of stock.
- Define Simple Interest.
- What is meant by sale of stock?
- Write the general equation for the n^{th} term of a G.P.
- Convert Pound into Shillings.
- Define the term : ‘The course of exchange’.
- What is true discount?
- The difference between single interest and true discount on a certain sum of money for $2\frac{1}{2}$ years at 4% is Rs. 4.50. Find the sum.

SECTION-B

2. The rate of exchange between Calcutta & London is Re 1 = 1 sh., $4\frac{13}{16}$ d. and between London and Paris is 87.80 francs per pound. Find the arbitrated rate between Calcutta & Paris. How much should a Calcutta merchant pay to a merchant in Paris for a bill of 20,000 francs due 4 months at $4\frac{1}{2}\%$?
3. Ajit purchased goods worth Rs. 624 from Surjit at 6 months credit and Surjit purchased goods worth Rs. 530 from Ajit at 9 months credit. If Rate of Simple Interest is 8%, what cash payment should be made to clear the amount?
4. A debt of Rs. 1200 is to be paid in one year by making payments of Rs. 100 at the end of each month plus interest at the rate of 1% per month on the outstanding balance. Find the total interest paid.
5. A man invests Rs. 39,200 in Govt. loans party in 3% at 96 and the rest in 4% at par. After paying Income Tax at 25% his total income amount to Rs. 1050. Find the amount, invested in each loan.
6. Find the sum of :
 - a) The first n natural numbers
 - b) The natural numbers below 1000 and divisible by 11.
 - c) The natural numbers below 1000 which are neither divisible by 5 nor by 2.
7. A Merchant of Delhi buys goods at Geneva for the value 2310 francs. Find the value of goods in rupees, if the exchange between London & Delhi is $13\frac{17}{24}$ rupees & between London & Geneva 25.333 francs to £ 1. Calculate the arbitrated rate of exchange between Delhi & Geneva.