P54/BIB107/EE/20160526

Time : 3 Hours **Marks : 80**

Instructions :

1. All Questions are Compulsory.
2. Each Sub-question carry 5 marks.
3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

1. Solve any **four** sub-questions.

   a) Given interest = Rs.120, Principle:? Time: 2 years, Rate:5%, calculate principle. 5

   b) Given P=Principle Amount = Rs.5000, R = 10%, Time = 3years, Interest = ? 5

   c) What do you understand by compound interest? 5

   d) Explain Nominal Interest Rate. 5

   e) What is Discounted value or Present value? 5

2. Solve any **four** sub-questions.

   a) Principal : Rs.1000, Rate:12% per annum, Time:1year, calculate Interest if compounded semi annually. 5

   b) Explain Annuity. 5

   c) What do you understand by Perpetuity? Give one example of it. 5

   d) Explain EMI (Equated Monthly Installments) in your own words. 5

   e) Illustrate future value of an Annuity. 5

3. Solve any **four** sub-questions.

a) Illustrate Present value of an Annuity. 5

b) Explain Amortization. 5

c) What is the difference between EMI and Amortisation. 5

d) Explain the concept of cohort. 5

e) Write a note on Mortality Rate. 5

4. Solve any **four** sub-questions.

a) Explain Sinking Fund. 5

b) What are the objectives of constructing life table? 5

c) Discuss various stages involved in construction of Mortality Table. 5

d) Define Attrition Factors. Give one example of it. 5

e) Write the difference between an ordinary life table and a multiple decrement life table. 5