



**M.Com. IV Semester Degree Examination, Sept./Oct.-2024**  
**COMMERCE**  
**Actuarial Valuation Practices**  
**(NEP)**

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** of the following questions with Question No.1 is **Compulsory**. Each question carries **fourteen** marks.

1. Describe the educational pathway required to become an actuary. Explain the key characteristics of actuarial science that are emphasized in actuarial education. **14**
2. Discuss the various uses of mortality tables in the insurance and pension industries. **14**
3. Describe the differences between term assurance, pure endowment, endowment and whole life insurance plans. How does each plan structure affect the premium calculations ? **14**
4. Describe the valuation of surplus in a life insurance company. Why is surplus valuation important and what are the primary sources of surplus ? **14**
5. Explain the nature and importance of actuarial risk management in the insurance industry. How does it contribute to the overall stability and profitability of insurance companies ? **14**
6. (a) What is a mortality table ? State the its primary sources. **7**  
(b) Explain the types of life insurance premiums and how do actuaries determine premium loading for expenses ? **7**
7. (a) Explain the net premium method for valuing life insurance policies. **7**  
(b) Describe the functions of actuarial risk management in the context of life insurance. **7**
8. Write short notes on the following :  
(a) Explain the process of constructing a mortality table. **5**  
(b) Present value of random variables. **5**  
(c) Net premium method in policy values. **4**

