

B.Sc. Choice Based Credit System (CBCS)

Subject : Microbiology

Model Question Paper (Theory)

Time: 3hrs

Max. Marks: 75

Part-A

Answer any FIVE questions

Each question carries 3 marks  $5 \times 3 = 15$  marks

1. Edward Jenner
2. Alexander Fleming
3. ~~Three~~ Kingdom system of classification
4. Blue-green algae
5. UV-rays
6. Phenol coefficient
7. Nucleoid
8. TMV

Part-B

Answer any FIVE questions

Each question carries 12 marks  $5 \times 12 = 60$  marks

(Select two questions in each unit)

9. a.) Discuss the contributions of Robert Koch and Louis Pasteur to the field of Microbiology  
OR

b.) Give an account on the history, milestones and significance of Virology

10. a.) Explain briefly three domain concept of Carl Woese

OR

b.) Describe the principle and techniques of differential and structural stains

11. a.) Explain the Physical methods of sterilization in detail

OR

b.) Discuss the different chemical methods of sterilization

12. a.) Give an account on isolation of pure culture techniques

OR

b.) Explain the various methods of preservation of microbial cultures

13. a.) Explain the morphology, structure and replication of lambda bacteriophage

OR

b.) Discuss the general characteristics and classification of eukaryotic microorganisms