



QP CODE: 25020500



Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE  
EXAMINATIONS, FEBRUARY 2025**

**Sixth Semester**

**CORE COURSE - ZY6CRT10 - MICROBIOLOGY AND IMMUNOLOGY**

Common for B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology and Industrial Microbiology Model III Double Main, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology & B.Sc Biological Techniques and Specimen Preparation Model III.

2017 Admission Onwards

FB6B3437

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Name two non-ionizing radiations used for sterilization.
2. Name two aldehydes used for sterilization.
3. How do you maintain a bacterial culture?
4. Classify bacteria based on flagellar arrangement.
5. Write on endospores.
6. What is lytic cycle?
7. What are fomites?
8. What are opsonins?
9. What is BALT?
10. What is a polyclonal antibody?
11. Give an example for Agglutination test.
12. What is Mantoux Test?

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Outline the classification of microorganisms.
14. Write a short essay on the different methods used in the cultivation of bacteria.
15. Comment on bacterial growth curve.
16. Briefly describe the structure and chemical composition of viruses.
17. Explain the epidemiology and treatment of Tetanus.
18. Write the role of T cells in immunity.
19. Describe the factors influencing immunogenicity of a substance.
20. Differentiate between polyclonal antibodies and monoclonal antibodies.
21. Explain AIDS. Describe the type of Immunodeficiency associated with the disease.

(6×5=30)

### **Part C**

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Write an essay on a) selective media b) differential media c) enrichment media.
23. Describe the bacterial cell wall structure, composition and function.
24. What are nosocomial infections? What are the factors contributing to its occurrence and comment on its preventive measures.
25. Write an essay on the principle of vaccination. Comment on different types of vaccines.

(2×10=20)

