



QP CODE: 20100477



Reg No : .....

Name : .....

**BSc DEGREE (CBCS) EXAMINATION, MARCH 2020**

**Sixth Semester**

**Core course - ZY6CRT10 - MICROBIOLOGY AND IMMUNOLOGY**

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

2017 Admission Onwards

B254F984

Time: 3 Hours

Marks: 60

**Part A**

*Answer any **ten** questions.*

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

1. Who discovered the first rabies vaccine?
2. Name any two properties of an ideal disinfectant.
3. How do you lyophilise bacteria?
4. Write on endospores.
5. Name the 4 phases of bacterial growth curve.
6. What are continuous cell lines?
7. Expand ELISA.
8. What are primary lymphoid organ?
9. What is TCR?
10. Name the largest immunoglobulin.
11. What are the main cells responsible for cell-mediated immunity?
12. Name the immunoglobulin responsible for allergy.

(10×1=10)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Explain the principle and working of autoclave.
14. What is enrichment media? For what purpose is it used? How is it different from enriched media?
15. Classify bacteria based on shape. Give examples for each.
16. Distinguish between generalized and specialized transduction.
17. What are nosocomial infections? Comment on its occurrence and preventive measures.
18. Give an account on the pathogenesis of HIV.
19. Differentiate between haptens and complete antigens? What are the important features of a complete antigen?
20. Briefly describe the causative factors for autoimmune diseases.
21. Write a short essay on the immunology of blood transfusion.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. What is a pure culture? Also explain the various pure culture techniques employed in bacterial isolation.
23. Describe the bacterial cell wall structure, composition and function.
24. Write an essay on acquired immunity.
25. Write an essay on the Clinical applications of Agglutination and Precipitation test to detect diseases.

(2×10=20)

