



QP CODE: 21101147



Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, APRIL 2021

Sixth Semester

CORE - 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

D6F4375B

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Who is called 'Father of Microbiology'?
2. Name two ionizing radiations used for sterilization.
3. Name any 4 culture preservation method.
4. Name the protein found in flagella of bacteria.
5. List the monomeric component of peptidoglycan.
6. Write the difference between protoplast and spheroplast.
7. What is bacteremia?
8. What is non specific immunity?
9. What is myeloid progenitor cell?
10. What is meant by an epitope?
11. What is a monoclonal antibody?
12. What is congenital immune deficiency?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. What are the properties of an ideal disinfectant? Given an account on the mode of action of chemical agents of sterilization.





14. Write about various types of media.
15. Comment on bacterial growth curve.
16. Briefly explain transduction.
17. What are the important modes of transmission of infectious diseases?
18. Explain the role of positive and negative selection in T cell maturation.
19. Describe hybridoma technology.
20. What is Widal test? Explain.
21. Comment on different types of vaccines.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Elaborate on microbial culture techniques.
23. Write an essay on viral replication.
24. Write an account on epidemiology, transmission and treatment of HIV.
25. Write an essay on Type II hypersensitivity.

(2×10=20)

