



QP CODE: 26019205



26019205

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BOTANY

ELECTIVE - BY810402 - CLINICAL MICROBIOLOGY

2019 Admission Onwards

39EE7816

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Write a note on the potential application of Adult Stem Cells (ASC) in therapies.
2. What are the functions of Bone Marrow?
3. Explain the basic structure of immunoglobulins.
4. Describe the principle of radioimmunoassay .
5. What is an autoimmunity disease? Give an example.
6. What is known as the sensitivity and specificity of a diagnostic method?
7. What is the basis for Bacteriophage typing ?
8. Name two nucleoside analogues and mention its role as antiviral agents.
9. Why is normal microbiota important?
10. What are conjugated vaccines?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Briefly explain how CTLs and NK cells are involved in Apoptosis.
12. Explain Slide Agglutination and Tube Agglutination Tests.
13. What are edible vaccines? Give a brief account on its mechanism of action.
14. Write a brief note on collection, transport and processing of blood specimens.





15. Describe the mode of transmission and symptoms of Ebola virus.
16. Which are the different methods employed for the isolation and cultivation of viruses?
17. Elaborate on the genetics of bacterial virulence.
18. Give an account on the different strategies adopted for the treatment of bacterial diseases.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Write an essay on transplantation immunology.
20. Essay on clinical, microbiological, immunological and molecular techniques for microbial disease diagnosis. Briefly explain any 3 modern molecular techniques.
21. Describe the various host defense mechanisms against viral infections.
22. Write a detailed note on the epidemiology of common bacterial diseases in human beings.

(2×5=10 weightage)

