



22001581

QP CODE: 22001581

Reg No : .....

Name : .....

**M Sc DEGREE (CSS) EXAMINATION, JULY 2022**

**First Semester**

M Sc BOTANY

**CORE - BY010101 - MICROBIOLOGY AND PHYCOLOGY**

2019 ADMISSION ONWARDS

7A5EF239

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Mention the contributions of Robert Koch in the growth of Microbiology.
2. Differentiate capsule from slime layer.
3. Comment on the application of reference cultures.
4. What is meant by complex symmetry of virus?
5. Describe the history of algal classification before F.E.Fritsch.
6. Differentiate epizoophytes and endozoophytes with suitable examples.
7. What are the reserve foods of brown algae and red algae?
8. What are the symptoms and toxins of Paralytic Shellfish Poisoning?
9. What are the negative influences of allelopathic interactions?
10. Write a note on methods of collection of algae from different habitats.

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Write a short note on mycoplasma.
12. Discuss various chemical methods of sterilization.





13. Comment on the genetics of prion infection.
14. Explain the contributions of G.S. Venkataraman.
15. Discuss the major characteristics of Phaeophyceae.
16. Write a short description on Rafatazmia chitrakootensis.
17. Describe the role of EPS in aquatic ecosystems.
18. Describe various kinds of algal culture.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Write an account of the various molecular techniques used for the identification of bacteria.
20. Describe the symmetry of Viruses with suitable examples.
21. Explain triphasic life cycle in algae with schematic diagram.
22. Explain the ecological role of algae.

(2×5=10 weightage)

