

QP CODE: 19002484

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Reg No : .....

Name : .....

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**M.Sc. DEGREE (C.S.S ) EXAMINATION, NOVEMBER 2019**

**First Semester**

Faculty of Science

BOTANY

**Core - BY010101 - MICROBIOLOGY AND PHYCOLOGY**

2019 Admission Onwards

D6C2F1BD

Maximum Weight: 30

Time: 3 Hours

**Part A (Short Answer Questions)**

*Answer any eight questions.*

*Weight 1 each.*

1. What are the major discoveries of Louis Pasteur ?
2. Comment on Actinomycetes
3. Specify the application of Blood agar
4. What is ICTVdb?
5. Name the titles of two monographs written by G.S. Venkataraman.
6. What are edaphophytes? Describe with suitable examples.
7. Differentiate zoospore and akinete.
8. What are phycocollides?
9. Describe the classification of algal blooms
10. Describe only the major composition of Walne's medium



(8×1=8 weightage)

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

*Answer any six questions.*

*Weight 2 each.*

11. Describe the ultrastructure of bacterial flagella with the help of a neat labelled diagram
12. Explain various physical methods of sterilization
13. Write notes on viral envelope and envelope constituents

14. Discuss the role of gene sequencing in algal systematics.
15. Describe the thallus structure of Phaeophyceae
16. Briefly explain fossil records of algae
17. Explain functional role of algae in primary productivity
18. Write the composition, preparation and uses of FAA.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any two questions.*

*Weight 2 each.*

19. Describe the systematic identification of bacteria using phenotypic, biochemical and molecular characteristics
20. Illustrate viral replication by lytic and lysogenic cycles.
21. Write an essay on algal components.
22. Describe the role of algae in experimental studies

(2×5=10 weightage)