

(Pages : 3)

S – 3453

Reg. No. :

Name :



Third Semester B.Sc. Degree Examination, February 2024

First Degree Programme under CBCSS

Botany

Core Course

**BO 1341 : MICROBIOLOGY, PHYCOLOGY, MYCOLOGY, LICHENOLOGY
AND PLANT PATHOLOGY**

(2019–2021 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

- I. Answer **all** questions in **one** word or **two** sentences. Each question carries 1 mark.
1. What is heterocyst?
 2. What is cyclosis?
 3. Name a coprophilous fungus.
 4. What are prions?
 5. Define necrosis.
 6. What is soredium?
 7. What are andropores?

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8. Name two edible fungus.
9. Name a plant diseases caused by virus.
10. What are amyllum stars?

(10 × 1 = 10 Marks)

SECTION – B

II. Answer any **eight** questions in a paragraph. Each question carries 2 marks.

11. Explain vegetative thallus of *Chlorella*.
12. What are conidiophores? Explain with one example.
13. How apothecium differ from cleistothecium?
14. Write short note on TMV.
15. Specify the differences between uredospore and teleospore.
16. Explain the structure of Globule.
17. What are algal blooms? How they are formed?
18. Differentiate receptacle and conceptacle.
19. Enumerate the general characters of Deuteromycotina.
20. What is rhizosphere?
21. Explain the structure of a sinzoospore? Give one example.
22. Discuss the preparation and uses of bordeaux mixture.

(8 × 2 = 16 Marks)

SECTION – C

- III. Answer any **six** questions not to exceed **120** words. Each question carries **4** marks.
23. Write short note on *Nostoc* colony and add note on its reproduction.
 24. Describe the structure of *Peziza* apothecium with suitable diagrams.
 25. Briefly explain the cell structure of *Pinnularia* and its reproduction.
 26. Explain the ultra structure of a bacterial cell.
 27. With suitable diagrams, describe the asexual reproduction of *Volvox*.
 28. Discuss different morphological forms of Lichen thallus.
 29. Write down the sexual reproduction in *Rhizopus*.
 30. Explain the casuative organism, symptoms and control measures of Citrus canker.
 31. Briefly explain the economic importance of algae.

(6 × 4 = 24 Marks)

SECTION – D

- IV. Write an essay on any **two** of the following not more than **three** pages. **Each** question carries **15** marks.
32. With neat labelled diagrams, describe the sexual reproduction in *Polysiphonia*.
 33. Discuss sexual reproduction in *Oedogonium*.
 34. Discuss thallus range in algae studied by you.
 35. With the help of neat labelled diagrams, discuss the life cycle of *Agaricus*.

(2 × 15 = 30 Marks)