

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2021**

(CBCSS)

Botany

BOT1C02—MYCOLOGY, LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY
(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

1. In cases where choices are provided, students can attend **all** questions in each section.
2. The minimum number of questions to be attended from the Section / Part shall remain the same.
3. The instruction if any, to attend a minimum number of questions from each sub section / sub part / sub division may be ignored.
4. There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.

Part A*Answer any **four** questions.*

1. What are the general characters of zygomycetes ?
2. Write a note on fruiting bodies of ascomycetes.
3. What are clamp connections ? How are they formed ?
4. Write an account on biopesticides and comment on their significance.
5. Give an account on actinomycetes and add a note on its economic importance.
6. What is bioremediation ? Explain the role of microbes in it.
7. Explain the organization and structure of TMV with the help of a diagram.

(4 × 2 = 8 weightage)

Part B*Answer any **four** questions.*

8. Give an account on microbial production of steroids, antibiotics and vaccines.
9. What is SCP ? Describe its significance.

10. Describe biochemical defense mechanism in plants.
11. Give an account on the symptoms, casual organism, disease cycle and control measures of blight of tea.
12. Write a note on general characters and classification mitosporic fungi.
13. Give a comparative account of characters of ascomycetes and basidiomycetes.
14. Give an account on the ecological and economic significance of lichens.

(4 × 3 = 12 weights)

Part C.

Answer any two questions.

15. Write an essay on food spoilage and the prevention methods.
16. Give a detailed account on mycorrhizae and its significance.
17. Describe the different types of asexual and sexual spores in fungi.
18. Give an account on the salient features, morphology and ultra structure of cyano bacteria. A note on its economic importance.

(2 × 5 = 10 weights)