

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(Regular/Improvement/Supplementary)
BOTANY

FBOT1C02-MYCOLOGY & LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY

Time: 3 Hours

Maximum Weightage: 30

1. Describe the general structure of mycoplasma.
2. Explain the significance of heterothallism in fungi.
3. What are the symptoms and control measures of Mahali disease in Arecanut?
4. Briefly explain microbial food spoilage.
5. Describe the characteristics of Zygomycota.
6. Name two fermented foods and their associated microorganisms.
7. What are symptoms and causal organisms for Powdery mildew in rubber?

(4 × 2 = 8 weightage)

Part B: Answer any *four* questions. Each carries *three* weightage.

8. Describe the replication cycle of TMV.
9. Explain the general structure and significance of mycorrhizal associations.
10. Write a general account of Myxomycota.
11. Describe the role of bacteria in sewage disposal and bioremediation.
12. Explain the classification of bacteriophages and their types.
13. Give a comparative account of characteristics of Ascomycota and Basidiomycota.
14. What are prions? Discuss their pathogenic effects.

(4 × 3 = 12 weightage)

Part C: Answer any *two* questions. Each carries *five* weightage.

15. Describe the general structure, ecological importance, and reproductive bodies of lichens.
16. Explain the ultrastructure, and economic importance of Cyanobacteria.
17. Discuss the different types of symptoms seen in diseases of crop plants.
18. Explain the classification of fungi by Ainsworth & Bisby and discuss its significance.

(2 × 5 = 10 weightage)