

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(Regular/Improvement/Supplementary)

BOTANY

FBOT1C02-MYCOLOGY & LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY

Time: 3 Hours

Maximum Weightage: 30

Part A: Answer any *four* questions. Each carries *two* weightage.

1. Explain coprophilous fungi with an example.
2. What are plasmids? How are they classified?
3. Comment on Actinomycetes.
4. What are phytoalexins? Give an example.
5. Elaborate on paranthosome.
6. Explain the structure of bacteriophages
7. Give a brief account of photosynthetic bacteria.

(4 × 2 = 8 weightage)

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

8. Give an account of various types of mycorrhizae.
9. Describe asexual reproductive bodies in lichens.
10. Explain the important salient features of Cyanobacteria.
11. Describe the modes of genetic recombination in bacteria.
12. What are different types of chemicals used for disease management?
13. Explain parasexuality in fungi.
14. Write the general characteristics of Myxomycota.

(4 × 3 = 12 weightage)

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

15. Explain the ultra structural details of TMV and its replication cycles with illustrations.
16. Describe the various sexual fruiting bodies produced by fungi.
17. Explain various types of commercially valuable products produced in industry using microbial processes. Give examples.
18. Discuss various defense mechanisms of plants against diseases.

(2 × 5 = 10 weightage)