

D1ABT2302

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Name.....

Reg.No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(Regular/Improvement/Supplementary)

BOTANY

FBOT1C02-MYCOLOGY & LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY

Time: 3 Hours

Maximum Weightage: 30

1. What is integrated disease management?
2. Write a brief note on the major pigments of cyanobacteria.
3. Differentiate between synnema and sporodochium.
4. Write a note on pasteurization.
5. Write a critical note on dimorphism in fungi.
6. Differentiate between blight and cankers.
7. What is meant by pathogenesis? What are the different stages of pathogenesis?

(4 × 2 = 8 weightage)

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

8. What do you mean by clamp connection? Describe successive stages of its formation.
9. Give an illustrated account of the ultrastructure of a cyanophycean cell.
10. Write a note on Arbuscular mycorrhizae. What is its significance?
11. Describe bacterial transduction.
12. Give an account on causative agent symptoms and control measures of Grey leaf spot of coconut.
13. With the help of a diagram describe the morphology of a bacteriophage.
14. Describe various types of ascocarps found in ascomycetes.

(4 × 3 = 12 weightage)

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

15. Discuss the classification system of fungi proposed by Ainsworth and Bisby.
16. Describe the industrial production of antibiotics, amino acids, steroids, vaccines, and organic acids.
17. Give an illustrated account of morphology and anatomy of lichen thallus.
18. Write an account on economic importance of bacteria.

(2 × 5 = 10 weightage)