

**D 72744**

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2019**

(CUCSS)

Botany

**BO01CT02—MYCOLOGY AND LICHENOLOGY, MICROBIOLOGY AND PLANT  
PATHOLOGY**

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

*Answer all questions very briefly.  
Each question carries 1 weightage.*

1. What are rhizomorphs ?
2. Write a note on dust bin fungus.
3. What is diplanetism ? Give an example.
4. Explain planogametic copulation.
5. What is epibasidium ? Give an example.
6. Differentiate between prions and viroids.
7. What is meant by pasteurization ?
8. Write a note on plasmids.
9. What is a single cell protein ? Give example.
10. How is radiation used for food preservation ?
11. What are phytoalexins ?
12. What are the general symptoms associated with viral diseases.
13. Write a brief note on actinomycetes.
14. What is Hartig net ?

(14 × 1 = 14 weightage)

*Answer any seven in not more than 100 words.  
Each question carries 2 weightage.*

15. What are the salient features of myxomycota ?
16. Write a note on VAM fungi and their role in plant growth.

**Turn over**

17. Explain the biochemical defense mechanism seen in plants.
18. Write a note on economic importance of lichens.
19. Briefly describe the process of sewage treatment.
20. Give the symptoms causal organism disease cycle and control measures of blister blight of tea.
21. Explain the production of alcohol and vinegar
22. Give an account on the structure of bacterial cell wall.
23. Describe the characteristics of mycoplasma. How do they differ from bacteria ?
24. Give an account on biofertilizers.

(7 × 2 = 14 weightage)

*Answer any **two** questions in not more than 300 words.*

*Each question carries 4 weightage.*

25. Describe the process of infection and pathogenesis in plants.
26. Explain the principle and system of classification of fungi proposed by Alexopoulou.
27. “Fungi are friends and foes of man” discuss with suitable examples.
28. Describe the structure and reproduction of TMV and add a note on mode of transmission of viruses.

(2 × 4 = 8 weightage)