

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015**

(CUCSS)

Botany

BO 01 CT 02 – MYCOLOGY, LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY

Time : Three Hours

Maximum : 36 Weightage

I. Answer *all* the questions very briefly :

1. What is a haustorium?
2. What is a macrocyclic fungus?
3. What is an androphage?
4. What are rusts?
5. What is a vector?
6. Describe an acervulum.
7. What is a predacious fungus?
8. What is meant by mitosporic fungus?
9. What is spitzenkörper?
10. What are cyphellae?
11. Explain woronin bodies.
12. What are episomes?
13. What is phylloplane?
14. Describe the characters of archaebacteria.

(14 × 1 = 14 weightage)

II. Answer any *seven* questions in not more than 100 words :

15. Explain the important features of myxomycetes.
16. Draw and label the parts of a bacteriophage.
17. Explain bioremediation with examples.
18. How viral diseases are transmitted? How they can be controlled?
19. What are fungicides? What is their role in sustainable agriculture?

Turn over

20. Describe the salient features of cyanobacteria.
21. Write a note on the ecological significance of lichens.
22. Explain the structure and significance of VAM.
23. What are the important features of actinomycetes?
24. What are the important characters of zygomycetes?

(7 × 2 = 14 weightage)

III. Answer any *two* questions in 300 words each :

25. Write a general account of ascomycota with emphasis on ascocarp diversity.
26. Compare the internal structure of crustose ,foliose and fruticose lichens and write note on their economic importance.
27. Write an essay on the microbiology of fermented foods
28. Describe the structural and biochemical defense mechanisms in plants.

(2 × 4 = 8 weightage)