

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016**(CUCSS)**

Botany

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

Time : Three Hours

Maximum : 36 Weightage

I. Answer the questions very briefly :

1. What is a **dolipore** septum?
2. What is a **phycobiont**?
3. Explain Prophylaxis.
4. What are **biofertilizers**?
5. What is the causative organism **for powdery mildew of rubber**?
6. Differentiate between **soridia** and **isidia**.
7. What are **chlamydo spores**?
8. What are the characteristic features of **mycoplasma**?
9. What are vaccines?
10. How plant viruses are transmitted?
11. Explain the **capillitium** of **myxomycetes**.
12. Give an example for predacious **fungi**.
13. What are **prions**?
14. What is a ghost?

(14 x 1 = 14 weightage)II. Answer any *seven* questions in not more **than 100 words** :

15. Explain the characters of **mastigomycota**.
16. Explain the role of fungi as a saprophyte.
17. Describe **bioremediation** with examples.
18. Describe the role of lichens as a source of chemicals.
19. Explain the **ultrastructure** of a **cyanobacterial** cell.
20. Describe the characters and **importance of plasmids**.

Turn over

21. Narrate the structural and biochemical defense mechanisms in plants.
22. Explain the role of biocides in plant protection.
23. Describe the role of **biopesticides** in sustainable agriculture.
24. What is the role of **SCP** in food security.

(7 x 2 = 14 weightage)

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

25. Describe different types of **mycorrhiza** and explain its importance.
26. Give a general account of **basidiomycota** and write note on their economic importance.
27. Write an essay on the role of micro-organisms in food industry.
28. With examples, describe the causal agents of plant diseases.

(2 x 4 = 8 weightage)