

15P130

Name:.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXTERNAL EXAMINATION FEBRUARY, 2016

(2015 Admission)

CC15P BO1 C02 – Mycology & Lichenology, Microbiology & Plant Pathology

(Botany)

Time: 3 Hours

Max. Weightage: 36

I Answer all questions briefly

1. What is bioremediation?
2. Enumerate the salient features of Actinomycetes.
3. Mention the significance of VAM fungi.
4. Write short note on mitosporic fungi.
5. Define Heterothallism.
6. What is synthetic media?
7. What are Iatrogenic diseases?
8. Describe Koch's postulates.
9. Write the etiology of Powdery mildew of Rubber.
10. What are coprophilous fungi?
11. What is rhizine?
12. Distinguish Prions and Viroids.
13. Enumerate the salient features of Cyanobacteria.
14. What are smuts?

(14 x 1 = 14 weightage)

II Answer any 7 questions each in not more than 100 words:

15. Write notes on the reproductive bodies of lichens.
16. Explain the role of bacteria in genetic studies.
17. Explain the symptoms and name the causal organisms of three fungal diseases.
18. Give a brief account on enzymes and toxins in pathogenesis
19. Describe the ultra structure of a fungal cell.
20. Write a note on the different steps in water purification..
21. Draw and label the parts of Tobacco Mosaic Virus. Explain their structure.
22. Describe mycorrhiza and their significance.
23. Write a note on wood-rotting fungi.
24. Mention the different symptoms of plant diseases

(7 x 2 = 14 weightage)

III Answer any 2 questions in 300 words:

25. Write a general account on plant and animal viruses and explain their infection and replication.
26. Give a general account on systematics, thallus structure and ecological significance of lichens.

Add a note on economical importance.

27. Elucidate the defence mechanism in plants.
28. Write an essay on Basidiomycota with special emphasis on basidiocarp.

(2 x 4 = 8 weightage)
