



QP CODE: 21002167

21002167

Reg No :

Name :

M Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2021
First Semester
M Sc BOTANY
CORE - BY010102 - MYCOLOGY AND CROP PATHOLOGY

2019 ADMISSION ONWARDS

74AE317E

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are mycelial chords?
2. explain the reason why the Myxomycota members are commonly referred to as 'slime molds'?
3. Give the unique characters of Teliomycetes.
4. What are soft rot Fungi? Give one example.
5. What are mycoparasites? Give one example.
6. What is histological defense mechanism in plants?
7. Explain the role of animals in transmitting plant diseases.
8. Give a few examples of proteins that help plants in insect resistance.
9. Explain the common symptoms of Papaya mosaic disease.
10. Powdery mildew is a common disease affecting rubber. How would you identify this disease by observing the affected plant?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Write an account on the methods of reproduction in Mastigomycotina.
12. Describe the different types of endomycorrhizae.
13. Write an account on the diversity of plant parasitic Fungi.
14. Write a brief description on the primary metabolic pathways in Fungi.





15. Briefly describe the common secondary metabolic pathways in Fungi.
16. What are the symptoms of bacterial diseases?
17. Define pathotoxins, citing appropriate examples.
18. Describe the symptoms and causative organism of abnormal leaf fall of rubber.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Describe how Fungi are classified by Alexopoulos and Mims (1979). Explain the main criteria considered for the classification.
20. Describe the different types of fruiting bodies produced by the members of Ascomycotina.
21. Write a comprehensive account on the induced structural and biochemical defence mechanisms in plants.
22. Write a summative account on the principles of disease management.

(2×5=10 weightage)

