

QP CODE: 25050625



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION, DECEMBER 2025

First Semester

M Sc BOTANY

Core Courses - BY010102 - MYCOLOGY AND CROP PATHOLOGY

2019 Admission Onwards

77F3F9A8

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Which are the different types of hyphal septa found in fungi.
2. Differentiate between aethalium and pseudoaethalium.
3. Briefly explain the general characters of Discomycetes.
4. What are mycoses? Give two examples for fungal parasites of Humans.
5. What are white rot Fungi? Give one example.
6. What is histological defense mechanism in plants?
7. Write examples of plant diseases transmitted through water.
8. What are parasitoids?
9. Rubber plantations of Kerala is prone to many diseases that affects the quality and yield of the products. Name a few such diseases along with the associated pathogens.
10. Explain the symptoms of Mahali disease.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Describe the different types of fruiting bodies formed in the members of Basidiomycotina.
12. Describe the different types of endomycorrhizae.
13. What are mycoparasites? Give one example.





14. Write an account on the secondary metabolism of Fungi.
15. Briefly describe the common secondary metabolic pathways in Fungi.
16. What are the symptoms of bacterial diseases?
17. Briefly describe the post penetration changes occurring in host plants during disease development.
18. Name the causative organism and describe the symptoms of bacterial blight of paddy.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Give an outline of the classification of Fungi based on Alexopoulos and Mims (1979).
20. Describe the different types of fruiting bodies produced by Fungi.
21. Write a comprehensive account on the induced structural and biochemical defence mechanisms in plants.
22. Write an essay on the use of transgenic approaches to disease resistance.

(2×5=10 weightage)

