



23

QP CODE: 19002485



19002485

Reg No :

Name :

M.Sc. DEGREE (C.S.S) EXAMINATION, NOVEMBER 2019**First Semester**

Faculty of Science

BOTANY

Core - BY010102 - MYCOLOGY AND CROP PATHOLOGY

2019 Admission Onwards

9ABD9F5D

Time: 3 Hours

Maximum Weights :30

Part A (Short Answer Questions)*Answer any eight questions.**Weight 1 each.*


1. Differentiate between rhizomorphs and mycelial chords.
2. Compare and contrast between Anisogamy and Oogamy.
3. What are the distinguishing features of Hyphomycetes?
4. What is Hartig net? What is its significance?
5. Differentiate between ectoparasites and endoparasites.
6. Describe cork layer formation as a way of defense mechanism in plants.
7. Write examples of plant diseases transmitted through water.
8. Define the concept and steps involved in seed certification.
9. Vegetable crops are susceptible to a number of diseases. Note down a few along with the microorganism responsible.
10. Name the common diseases affecting beverage crops.

(8×1=8 weightage)

Part B (Short Essay/Problems)*Answer any six questions.**Weight 2 each.*

11. Describe the process of development of ascus and ascocarp.
12. Describe the process by which Fungi degrade wood.
13. Citing examples, explain how Fungi are exploited as biocontrol agents.
14. Write an account on the secondary metabolism in Fungi.



- 
15. Briefly describe the common secondary metabolic pathways in Fungi.
 16. Classify animate diseases in relation to their occurrence.
 17. Explain the different methods adopted by pathogens for direct penetration into plant cells.
 18. Comment on the common symptoms and preventive methods of grey leaf spot disease of Coconut.

(6×2=12 weightag

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 various types of fruiting bodies produced by Fungi.
21. Explain the pre-existing defense mechanisms in plants against pathogens.
22. Describe the applications of transgenic technologies in enhancing disease resistance of plants, citing suitable examples.

(2×5=10 weightag