QP CODE: 22001582

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Reg No : .....

Name : .....

M Sc DEGREE (CSS) EXAMINATION, JULY 2022

First Semester

M Sc BOTANY

CORE - BY010102 - MYCOLOGY AND CROP PATHOLOGY

2019 ADMISSION ONWARDS

051C2BA8

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. List out the subdivisions of Amastgomycota according to the classification of Fungi by Alexopaulos and Mims (1979)?
2. Give the general characters of Plectomycetes.
3. What are the distinguishing characters of Coelomycetes?
4. What are mycoses? Give two examples for fungal parasites of Humans.
5. What is coprophilous Fungi? Give two examples.
6. Briefly describe hypersensitive responses in plants.
7. Give any three examples of vector born plant diseases.
8. Name any two antibiotics used against plant diseases.
9. How would you identify and confirm bacterial blight of paddy by observing the affected plant?
10. 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.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Describe the general characters of Plasmodiophoromycetes.
12. How are Lichens classified based on the nature of thallus.
13. Write a brief account on the agricultural significance of Fungi.
14. Write a brief description on the primary metabolic pathways in Fungi.

15. Briefly describe the common secondary metabolic pathways in Fungi.

16. Describe the general symptoms of fungal diseases.

17. What are the major changes observed during the penetration stage?

18. Write a note on the symptoms and causative organism of red rot of sugarcane.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Describe the unique and general characteristics of Fungi.

20. Describe the various types of fruiting bodies produced by Fungi.

21. Give an account on pre-existing structural and biochemical defence mechanisms in plants against diseases.

22. Write an essay on the use of transgenic approaches to disease resistance.

(2×5=10 weightage)