

TM211040TR

Reg. No :

Name :

M. Sc. DEGREE (C.S.S.) EXAMINATION, NOVEMBER 2021
[2021 Admissions Regular and 2020 Admissions Improvement & Supplementary]
SEMESTER I - CORE COURSE (BOTANY)
BO1C02TM20 - MYCOLOGY AND CROP PATHOLOGY

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Write a brief note on sporangiospores.
2. Discriminate between acervulus and pycnidium.
3. What is meant by dolipore septum?
4. Write a brief note on amatoxin.
5. Mention the harmful effects caused by aflatoxin.
6. Phytoalexins play a major role in the defense mechanism of plants. Substantiate.
7. What are tyloses? How do they act as defense structures?
8. State the methods of passive dispersal of pathogens.
9. What causes canker in citrus? What are the control measures to be adopted?
10. What is Kresek phase? What are the characteristic symptoms?

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Give an account on the economic importance of fungi.
12. Write a short note on the asexual spores produced by fungi.
13. Describe the internal thallus structure of lichen.
14. Write a short note on common fungal diseases in animals and man.
15. Describe the major causative agents of plant diseases. Add a note on their classification.
16. Trichoderma is an excellent agent for biological control of plant diseases. Justify the statement.
17. With examples, discuss the transmission of diseases by nematodes.
18. Write an account on diseases affecting *Hevea braziliensis*.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Write an account on the classification, structure and reproduction in Ascomycotina.
20. Elaborate on the mechanisms by which pathogens penetrate the host tissue.
21. Give a detailed account on the agents that transmit plant diseases.
22. Diseases that affect spices incurs large economic loss. Discuss diseases in spices that you have studied.