Reg. No ....................                        Name ..............................                **20P1020**

## M. Sc DEGREE END SEMESTER EXAMINATION - OCT 2020 : FEBRUARY 2021
### SEMESTER 1 : BOTANY
### COURSE : 16P1BOTT02 : MYCOLOGY AND CROP PATHOLOGY
*(For Regular - 2020 Admission and Supplementary - 2016/2017/2018/2019 Admissions)*

Time : Three Hours                                                                Max. Marks: 75

### PART A
### Answer any 8 (2 marks each)

1.  What are rhizomorphs?
2.  Differentiate dimorphism and heterothallism in fungi.
3.  Differentiate Eihypothallic and subhypothallic sporophore development.
4.  Explain the types of mycelium seen in Basidiomycotina.
5.  What are ectendomycorrhiza?
6.  What is VAM? Mention its significance.
7.  Write a note on paddy blast disease.
8.  Write a note on anthracnose of mango.
9.  Write short note on plant quarantines.
10. What is the effect of wind on developing plant diseases?
11. Write notes on vector-borne disesaes.
12. What are Phytotoxins?

**(2 x 8 = 16)**

### PART B
### Answer any 7 (5 marks each)

13. Describe the classification of fungi by C. J. Axexopoulos.
14. What are the unique characteristics of fungi? Explain Ainsworth's classification of fungus.
15. Briefly write about the spore dispersal in basidiomycetes.
16. Describe the septal pore apparatus in basidiomycetes with a labelled diagram.
17. Write a short note on thallus diversity of Lichens.
18. What are the general symptoms of quick wilt of pepper? Name the causative organism.
19. Give an account on causal agent, symptom and control measure of blister blight of tea.
20. Write a note on chemical method of disease control.
21. Describe the various measures adopted for eradication of plant pathogen from an infected area.
22. How do light and temperature affect the development of plant diseases?

**(5 x 7 = 35)**

### PART C
### Answer any 2 (12 marks each)

23. How many kinds of sexual cycles are found in fungi? Discuss by giving example from each.
                    OR
24. Write an essay on Ascomycotina with special mention to its economic siginificance.


25. Briefly describe the role of enzyme in pathogenesis.
                    OR
26. Write an essay on defense mechanism in plants.

**(12 x 2 = 24)**

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