

M. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**SEMESTER 1 : BOTANY****COURSE : 21P1BOTT02 : MYCOLOGY AND CROP PATHOLOGY***(For Regular - 2023 Admission and Improvement/Supplementary -2022/2021 Admissions)*

Duration : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

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| 1. Differentiate Phragmobasidium and Holobasidium. | (U, CO 3) |
| 2. What is meant by horizontal resistance? Mention its significance. | (U, CO 4, CO 5) |
| 3. Write a note on Citrus canker. | (U, CO 4, CO 5) |
| 4. Distinguish between oospore and zoospore. | (R, CO 1, CO 2, CO 3) |
| 5. Distinguish between endosymbiont and ectosymbiont. | (U, CO 4, CO 5) |
| 6. Write short note on plant quarantine. | (U, CO 4, CO 5) |
| 7. Write a note on Anthracnose of Mango. | (U, CO 4, CO 5) |
| 8. Briefly explain the thallus organisation in Chytridiales. | (A, CO 1) |
| 9. Brief about the dissemination of plant virus and their entry into host plants. | (An) |
| 10. What is the effect of wind on plant disease enhancement? | (U, CO 4, CO 5) |
| | (1 x 8 = 8) |

PART B**Answer any 6 questions****Weights: 2**

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| 11. Briefly explain the plasmodium types in Myxomycotina. | (U, CO 1, CO 2) |
| 12. What are the different types of therapeutic methods for disease control? | (U, CO 4, CO 5) |
| 13. Write an account on symptoms, causative organisms and control measures of diseases seen in vegetables. | (A, CO 4, CO 5) |
| 14. Write a note on the cell wall degrading enzymes produced by pathogen. | (U, CO 4, CO 5) |
| 15. Compare sexual spores of Mastigomycotina and Zygomycotina. | (An) |
| 16. Give an account of fungal parasites on plants. | (U, CO 4, CO 5) |
| 17. Give an account on animate and inanimate agents on dissemination of plant diseases. | (U, CO 4, CO 5) |
| 18. In what all ways can fungus reproduce asexually? | (U, CO 3) |
| | (2 x 6 = 12) |

PART C
Answer any 2 questions

Weights: 5

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| 19. | Explain the process of development of disease in plants? Give a note on the mechanism of infection, transmission and dissemination of plant diseases. | (U, CO 4, CO 5) |
| 20. | Write an essay on the common strategies adopted to control diseases. | (U, CO 4, CO 5) |
| 21. | Write an essay on thallus evolution in fungi. | (U, CO 1) |
| 22. | Fungal associations of plants are beneficial and detrimental. Justify. | (An, CO 5)
(5 x 2 = 10) |

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Analyze the morphological diversity of different micro and macro fungi.	An	4, 8, 11, 21	9
CO 2	Describe different classification systems and their applications.	A	4, 11	3
CO 3	Examine the reproductive behaviour in fungi	U	1, 4, 18	4
CO 4	Identify various fungal diseases	An	2, 3, 5, 6, 7, 10, 12, 13, 14, 16, 17, 19, 20	26
CO 5	Evaluate fungal associations, their usefulness and harmfulness	E	2, 3, 5, 6, 7, 10, 12, 13, 14, 16, 17, 19, 20, 22	31

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;