

Reg. No

Name

22P1022

M. Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 1 : BOTANY

COURSE : 21P1BOTT02: MYCOLOGY AND CROP PATHOLOGY

(For Regular - 2022 Admission and Supplementary - 2021 Admission)

Duration : Three Hours

Max. Weights: 30

PART A

Answer any 8 questions

Weight: 1

1. Explain the diploid sexual spore in lower fungi (An, CO 1)
 2. Describe the assimilative phases seen in Myxomycetes. (U, CO 1)
 3. Briefly explain the thallus organisation in chytridiales. (A, CO 1)
 4. What are isidia? How is it differ from soredium? (R, CO 5)
 5. Write a short note on disease pyramid and how it is differ from disease triangle? (U, CO 4, CO 5)
 6. What is meant by hypersensitive defense resistance? Give its significance. (U)
 7. Comment on the effect of pH on the development of plant diseases. (U, CO 4, CO 5)
 8. Define biocontrol. Give a few examples. (U, CO 4, CO 5)
 9. Describe the symptoms, etiology and control of blast of paddy. (A, CO 4, CO 5)
 10. Write a note on citrus canker. (U, CO 4, CO 5)
- (1 x 8 = 8)**

PART B

Answer any 6 questions

Weights: 2

11. Describe the various stages in a parasexual cycle. (U, CO 3)
 12. Briefly illustrate the development of Ascogenous hypha and the ascus. (An, CO 1)
 13. Compare sexual spores of mastigomycotina and zygomycotina (An)
 14. Briefly explain the different types of Mycorrhiza. (U, CO 5)
 15. Describe the toxins involved in the process pathogenesis. (U, CO 4, CO 5)
 16. Give an account on animate and inanimate agents on dissemination of plant diseases. (U, CO 4, CO 5)
 17. Write a note on chemical method of disease control. (U, CO 4, CO 5)
 18. Give a detailed account on causative organism, symptoms and control measures of diseases seen in spice crops. (A, CO 4, CO 5)
- (2 x 6 = 12)**

PART C
Answer any 2 questions

Weights: 5

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| 19. | Describe the fruiting bodies in fungi with suitable schematic diagrams and examples. | (U,
CO 3) |
| 20. | Write an essay on various associations formed by fungi, and their significance. | (A, CO 5) |
| 21. | Describe the process of infection and pathogenesis in plants. | (U, CO 4, CO
5) |
| 22. | Write an essay on disease management on crop plant. | (An, CO 4, 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	1, 2, 3, 12	5
CO 3	Examine the reproductive behaviour in fungi	U	11, 19	7
CO 4	Identify various fungal diseases	An	5, 7, 8, 9, 10, 15, 16, 17, 18, 21, 22	23
CO 5	Evaluate fungal associations, their usefulness and harmfulness	E	4, 5, 7, 8, 9, 10, 14, 15, 16, 17, 18, 20, 21, 22	31

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