Reg. No ..... Name **24U230**

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2024

SEMESTER 2 : BOTANY

COURSE : **19U2CRBOT02 : MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY**

(For Regular - 2023 Admission and Improvement / Supplementary – 2022/2021/2020/2019 Admissions)

Time : Three Hours Max. Marks: 60

PART A

Answer All (1 mark each)

1. Name a pathogen which penetrates the host by direct penetration.
2. Differentiate between holocarpic and eucarpic fungus.
3. Which fungal class is known as *Fungi imperfecti*?
4. What is spawn?
5. Name a fungicide used for controlling disease in plants.
6. Name the scientist who discovered Penicillin.
7. Yeast is mixed with flour while making bread. Why?
8. Name the causal agent of root wilt of coconut.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. "Name the pathogen of blight of rice and suggest it's control measures".
10. Explain biological control measures against plant diseases.
11. *Puccinia graminis* is a heteroecious species. Justify the statement.
12. What do you mean by coprophilous fungi?
13. Explain the mode of dissemination of leaf mosaic disease of tapioca?
14. Fungi are known as vultures of the plant kingdom. Justify the statement.
15. Give a brief account on mushroom cultivation.
16. Explain the role of enzymes in pathogenesis.

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

17. Comment on cell structure of yeast.
18. Explain the defence mechanism of host plants against pathogen.
19. Describe the modes of nutrition in fungus.
20. Comment on the ecological and economic significance of lichens.
21. Explain the steps involved in the preparation of spawn.
22. What are fungicides? Explain the method of preparation and mode of application of any two fungicides.

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

23. Write an essay on the agricultural and industrial importance of fungi.
24. Explain the lifecycle of Rhizopus. Comment on the formation of zygospore.

25. Give an account of cause, symptom, spreading and control measures of the fungal disease affecting rubber plant.

26. Describe the events leading to the formation of basidiocarp in *Agaricus*.

(10 x 2 = 20)