Reg. No…….. Name…… **21U222S**

B. Sc. DEGREE END SEMESTER EXAMINATION – JULY 2021

SEMESTER – 2: BOTANY (CORE COURSE)

COURSE: 15U2CRBOT2, MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY

(Common for supplementary 2018/2017/2016/2015 admissions)

Time: Three Hours Max. Marks: 60

PART A

Answer all questions; each question carries 1 mark.

1. What is Dikaryotisation.
2. How are lichens classified based on their thallus structure?
3. Name the fungi causing white rust.
4. What is a macrocyclic fungus?
5. What is VAM?
6. Name a heteroecious fungus
7. What is a chlamydospore?
8. What is spawn? (1 x 8 = 8)

PART B

Answer any six questions; each question carries 2 marks

9. Explain the structure of sporangium in Rhizopus with suitable diagrams
10. Write a note on the economic importance of lichens
11. Explain crozier formation is ascomycetes.
12. Explain the uredospore formation in *Puccinia*
13. What is a soredia?
14. Explain the harmful and beneficial aspects of fungi
15. Illustrate the structure of the apothecium in Peziza.
16. Differentiate between isidia and soredia.
17. Name the causative organism and any two symptoms of citrus canker.
18. What is a dolipore septum? (2 x 6 = 12)

PART C

Answer any four questions; each question carries 4 marks.

19. Explain seed certification.
20. Brief note on mycorrhizal associations
21. Describe the asexual reproductive structures in fungi

22. Describe the biological control of plant diseases
23. Explain the thallus classification in myxomycstes
24. Draw the labelled structure of the apothecium of a lichen. (4 X 4 = 16)

PART D

Answer ANY TWO questions; each question carries 12 marks.

25. Give an outline of Ainsworth's classification of fungi. Enumerate main features of different classes of fungi.

OR

26. Explain the life cycle of Puccinia with suitable diagrams
27. What is a lichen? How are they classified based on the thallus and briefly discuss the asexual methods of propagation

OR

28. Briefly explain the life cycle of a facultative saprophyte with special emphasis on damping off of seedling

(12 X 2 = 24)