

**B.Sc. DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019****SEMESTER – 2: BOTANY (CORE COURSE)****COURSE: 15U2CRBOT2, MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY***(Common for Regular 2018 admission and improvement/supplementary 2017/2016/2015 admission)*

Time: Three Hours

Max. Marks: 60

**PART A**I. Answer **ALL** questions; each question carries **1** mark.

1. Name the causative organism of abnormal leaf fall disease of rubber.
2. Name a fungus pathogenic on humans.
3. Name a biological control agent.
4. What do you mean by prophylaxis?
5. Name two edible mushrooms.
6. What is a perithecium?
7. Name an organism that produces usnic acid.
8. What is spawn?

(1 x 8 = 8)

**PART B**II. Answer **ANY SIX** questions; each question carries **2** marks

9. Describe a sporangium.
10. Comment on asexual reproductive structures in fungi.
11. Explain mycoparasitism, with examples.
12. Describe the fruiting body of *Peziza* with a labelled diagram.
13. Write notes on Deuteromycotina.
14. What is biological control?
15. How are mycorrhiza classified?
16. Differentiate between isidia and soredia.
17. What are clamp connections?
18. What is a dolipore septum?

(2 x 6 = 12)

**PART C**III. Answer **ANY FOUR** questions; each question carries **4** marks

19. Explain the role of fungi in agriculture.
20. What are the characteristic features of Zygomycotina?
21. Explain the transmission of plant diseases.
22. Write a note on mushroom cultivation.
23. Describe the thallus structure of *Parmelia*
24. How is tobacco decoction prepared?

(4 x 4 = 16)

**PART D**

IV. Answer **ANY TWO** questions; each question carries **12** marks.

25. Explain the fruit body types of Ascomycotina, with suitable diagrams.

**OR**

26. With suitable diagrams, illustrate and describe the life cycle of *Puccinia*

27. Write an essay on the ecological and economic importance of lichens.

**OR**

28. Explain defense mechanisms in plants against diseases.

(12 x 2 = 24)

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