

TB145090A

Reg. No.....

Name.....

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION , OCTOBER 2016
SEMESTER V- BOTANY
BOT5MLP - MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each questions carries 1 mark.

1. Define Plasmodium.
2. What are 'dolipore septum'?
3. Why deuteromycetes fungi are called 'Fungi imperfecti'?
4. What are Mycorrhizae?
5. What are isidia?
6. How Lichens are classified based on the thallus anatomy?
7. What are haustoria?
8. Name the causal agent of root (wilt) disease of Coconut.

(8x1=8)

PART B

II. Answer any six questions. Each questions carries 2 marks.

9. Differentiate Cleistothecium from Apothecium.
10. Why mushrooms are called nutraceutical food items?
11. Explain how tobacco neem decoctions were prepared?
12. Explain the different asexual reproductive structures seen in Lichens.
13. What are coprophilous fungi? Give examples.
14. Explain why lichens are called composite organisms?
15. Mention the important fungal pathogens in Man.
16. Define seed certification. What is its significance in plant pathology?
17. What is the causal organism and symptoms of bacterial blight of paddy?
18. Mention the non-sexual method of reproduction seen in Saccharomycetes.

(6x2 =12)

SPART C

III. Answer any four questions. Each questions carries 4 marks.

19. Describe the V.S of the fruiting body of Agaricus with the help of a diagram.
20. With the help of labeled diagram explain internal thallus organization in Parmelia.
21. Give an account of the mode of nutrition in fungi with citing examples.
22. Explain in detail about polymorphism in fungi with the example studied by you.
23. Explain the symptoms and control measures of Bunchy top diseases of Banana.
24. Write a note on the defence mechanisms of plants.

(4x4= 16)

PART D

IV. Answer any two questions. Each questions carries 12 marks.

25. Explain the classification of fungi proposed by Ainsworth (1973) by citing the distinguishing features of different classes.
26. Write an essay on the biotechnological application of fungi with appropriate examples.
27. Write an essay on the classification of plant diseases on the basis of causative organisms and symptoms.
28. Write an essay on the cultivation of oyster mushroom using paddy straw as substrates? What are different methods adopted for sterilizing the substrate for cultivation?

(2x12=24)