M SC DEGREE END SEMESTER EXAMINATION 2014 -15
SEMESTER -1: SUBJECT- BOTANY
COURSE CODE: P1BOTT02 - MYCOLOGY AND CROP PATHOLOGY

Time: 3 Hours   Max. Marks: 75

I. Answer **any eight** questions briefly; each question carries 2 marks

   1. Enumerate the salient features of Zygomycotina.
   2. What are Ectomycorrhizas?
   3. Define parasexuality.
   4. What are mycoparasites?
   5. Mention the salient features of Myxomycetes.
   6. Write a short note on Heterothallism.
   7. Write a brief note on hymenium.
   8. Write a short note on integrated pest management.
   9. Mention the different modes of transmission of plant diseases.
   10. Mention the applications of fungicides.
   11. Write a brief note on seed borne diseases.
   12. Write the etiology and symptoms of Blister blight of tea.

$$(8 \times 2 = 16)$$

II. Answer **any seven** questions; each question carries 5 marks

   13. Describe the significance of VAM fungi.
   14. Explain the cellulolytic role of fungi.
   15. Write down the salient features of Mastigomycotina comparing its three classes.
   16. Explain the vegetative structure of Basidiomycotina.
   17. Explain the reproductive structures of lichens.
   18. Explain conidiophores of Deuteromycotina.
   19. Enumerate the biological means of disease control.

20. Briefly describe the role of enzymes in pathogenesis.

21. Explain the etiology, symptoms and management practices of Red rot of sugar cane.

22. Give an account on the abiotic causes of plant diseases.

(7 x 5 = 35)

III. Answer **any two** questions; each question carries 12 marks

23. Explain the structural and biochemical basis of host parasite interaction.

OR

24. Explain in detail plant disease management.

25. Write an essay on Ascomycotina with special mention to its economic significance.

OR

26. Explain the classification of fungi. Compare the classification of G.C Ainsworth and C. J. Alexopoulos

(2 x 12 = 24)