Reg. No…….. Name……

M. SC. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2017

SEMESTER **– 1: BOTANY**

COURSE: **16P1BOTT02 –: MYCOLOGY AND CROP PATHOLOGY**

(Common for Regular 2017 Admission & Supplementary 2016 Admissions)

Time: Three Hours Max. Marks: 75

I. Answer **any eight** questions. Each Question carries 2 marks

1. Explain the structure of an acervulus.
2. What are the distinguish features of oomyeetes?
3. Give an account on Mazz's disease pyramid.
4. What are mycotoxins? How are they significant?
5. How do growth regulators affect pathogenesis?
6. Explain vertical resistance. How is it different from horizontal resistance.
7. What are pathogen elicitors?
8. What is mycorrhiza? What are the different types of it?
9. Given the salient features of sexual reproduction in myxomycetes.
10. What is a demicyclic fungus?
11. Explain mass action concept by Horsfall.
12. How are pesticides classified based on their toxicity?
13. Give a brief account on transgenic approach in disease resistance. (2 x 8 = 16)

II. Answer **any seven** questions. Each Question carries 5 marks

14. Explain the symptoms and control measures associated with Damping off disease in Tomato
15. What are the prophylactic methods in plant disease management?
16. Write an account on general characteristics of Zygomycetes.
17. Give a short note on frunctifications in basidiomycetes.
18. What are the different types of plasmodial types in Myxomycetes?
19. Explain the agricultural significance of fungi.
20. Explain the Hyper sensitive defense reactions in plants
21. Explain the casual organism and symptoms of any two diseases of Coconut
22. Explain the Disease triangle (5 x 7 = 35)

III. Answer **any two** questions. Each Question carries 12 marks

23. Explain the affect of pathogens on various physiological processes of host plants.

OR

24. Give a detailed account on different symptoms associated with plant diseases?

25. Explain the salient features of Ascomycotina. Describe the various fructifications associated with the group.

OR

26. Explain the AFTOL scheme of fungal classification. (12 x 2 = 24)