

MSC DEGREE END SEMESTER EXAMINATIONS – NOVEMBER 2015

SEMESTER- 1, SUBJECT: BOTANY

COURSE: P1BOTT02 - MYCOLOGY AND CROP PATHOLOGY

(Regular, Supplementary / Improvement)

Time: Three Hours

Max. Marks: 75

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

1. What is clamp connection?
2. What is inoculum?
3. Write a note on mycoherbicides.
4. Differentiate between brown rot and white rot fungi.
5. What is appressorium?
6. What are the different types of mycorrhiza?
7. What is peridium?
8. What is necrosis?
9. Define biocontrol.
10. What are the abiotic causes of plant diseases?
11. What is horizontal resistance?
12. Describe the symptoms of abnormal leaf fall of rubber.

(2 x 8 = 16)

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

1. Explain nutrition in fungi.
2. Give the general characteristics of Myxomycota.
3. Explain the effect of mineral deficiency in plant pathogenesis.
4. What are the methods of transmission of plant viruses?
5. Explain the plant disease symptoms caused by bacteria.
6. Describe the sexual fruit bodies produced by Ascomycotina.
7. How are plant diseases classified?
8. Give an account on the causal agent, symptoms and control measures of blister blight of tea.
9. Write a note on chemical methods of disease control.
10. How are mitosporic fungi classified?

(5 x 7 = 35)

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

1. Write an essay on natural defense mechanisms in plants.

OR

2. Write an essay on the fungal diseases of cereals that you have studied.
3. Write an essay on varied associations formed by fungi, and their significance.

OR

4. Explain the Ainsworth (1973) system of classification of fungi.

(12 x 2 = 24)