

15011(OR)

M.Sc., DEGREE EXAMINATION, OCTOBER/NOVEMBER 2015
FIRST SEMESTER

Botany

Paper I – Biology and Diversity of Viruses, Bacteria, Fungi and Plant Pathology

Max. Marks: 75

Time: Three hours

(No additional sheet will be supplied)

PART A- (5 x 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page

1. Viroids
2. MLOs
3. Bacterial conjugation
4. Nitrogen fixation
5. Mastigomycotina
6. Mushroom cultivation
7. Symptomology of fungal diseases
8. Club root of crucifers

PART B - (4 x 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Describe the ultra structure and multiplication of TMV and Bacteriophage
(or)
10. Bring out the salient features of the Phytoplasma
11. Give an account on general characters of Bacteria
(or)
12. Write a note on the significance of bacteria in Agriculture
13. Discuss the salient features of fungi
(or)
14. Mention the structure and reproduction of Lichens and Mycorrhizae
15. Describe the host defense mechanisms in fungal diseases
(or)
16. How to control the plant fungal diseases through physical, chemical and biological methods