

15011

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

FIRST SEMESTER

Botany

Paper I— BIOLOGY AND DIVERSITY OF VIRUSES, BACTERIA, FUNGI AND PLANT PATHOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Ultra structure of viruses.
2. Viroids.
3. Phytoplasma
4. Bacterial conjugation.
5. Heterokaryosis.
6. Mushroom cultivation.
7. Molecular detection of pathogens.
8. Plant-Microbe interaction.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write a note on isolation and purification of Viruses.

Or

10. Give an account on replication and transmission of Viruses.
11. Mention about nutrition and reproduction of Bacteria.

Or

12. Write an essay on economic importance of Bacteria.

13. Give a general account of Zygomycotina.

Or

14. Bring out the salient feature of Lichens and Mycorrhiza.

15. Discuss the nature and classification of plant diseases.

Or

16. Describe the control measures of viral, bacterial and fungal diseases in crops.

