

15061

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

FIRST SEMESTER

Microbiology

Paper I – GENERAL MICROBIOLOGY

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. Germ theory of disease
2. Fluorescent microscope
3. UV irradiation
4. Enrichment media
5. Synchronous culture
6. Flagellar staining
7. Life cycle of puccinia
8. Structure of Geladiella

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Explain the principle and applications of TEM.

Or

10. Discuss the five kingdom classification and major characteristics used in identification and classification.
11. Describe the physical and chemical methods of sterilization.

Or

12. Write an essay on natural and synthetic media.

13. Explain the approaches for obtaining pure cultures from different samples.

Or

14. Discuss different types of preservation of microbial cultures.

15. Describe the structure, reproduction and economic importance of plasmodiophora.

Or

16. Give an account of structure, reproduction and economic importance of Nostoc and Anabena.

