

15061

M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2018.

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 diseases.
2. Light microscope.
3. Sterilization.
4. Enriched media.
5. Synchronous cotton.
6. Freeze drying.
7. Biofertilizers.
8. Rhizopus.

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 scanning electron microscopy.

Or

10. Discuss the major constitutions on the field of microbiology and explain the importance of this branch in human welfare.

11. How to control micro organisms using various physical and chemical methods.

Or

12. What are the different media used cultivation of micro organisms?

13. How to isolate pure cultures using different technique in microbes?

Or

14. What are the different staining techniques used for identification and characterization of micro organisms?

15. Describe the structure, general characters and reproduction of Ascomycotina.

Or

16. Explain the life cycle and economical importance of algae and cyano bacteria.

