

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2017

FIRST SEMESTER

Part II – Microbiology

Paper I — INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY

(2016 and 2017 admitted candidates)

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer any FIVE questions.

(Marks : 5 × 5 marks = 25 marks)

1. Edward Jenner.
2. Whittaker's five kingdom classification.
3. General characters of mycoplasma.
4. Structure of TMV.
5. Phase contrast microscope.
6. Laminar air flow.
7. Spore staining.
8. General characters of protozoa.

SECTION – B

Answer ONE question from each Unit.

Each question carries 10 marks.

(Marks : 5 × 10 marks = 50 marks)

UNIT – I

9. (a) Write a note on contribution of Louis Pasteur.

Or

- (b) Explain about contribution of Robert Koch.

UNIT - II

10. (a) Describe the structure of prokaryotic cell with neat diagram.

Or

(b) Describe the structure and life cycle of HIV.

UNIT - III

11. (a) Write a note on principle and applications Bright field microscope.

Or

(b) Give an account on principle and application of Electron microscope.

UNIT - IV

12. (a) Write a note on Gram staining.

Or

(b) Define sterilization. Write a note on physical methods of sterilization.

UNIT - V

13. (a) Explain about pure culture techniques.

Or

(b) Write about various methods of preservation of Microbial culture.
