

(1309MIC15)

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

FIRST SEMESTER

Part II — Microbiology

Paper I — INTRODUCTORY MICROBIOLOGY MICROBIAL TECHNIQUES AND  
BIOLOGY OF MICROORGANISMS

(2015 Admitted Candidates)

Time : 3 Hours

Max. Marks : 75

**PART - A**

Answer any FIVE questions.

(Marks : 5 × 5 marks = 25 marks)

1. Write a short note on contributions of Alexander Fleming.
2. Write a short note on contributions of Edward Jenner.
3. Describe Whittaker's five kingdom classification.
4. Explain Carl Woese system of classification.
5. Describe Phenol coefficient test.
6. Explain Lyophilisation.
7. Write a short note on general characters of yeast.
8. Describe the structure of TMV.

**PART - B**

Answer ONE question from each Unit. Each question carries 10 marks.

(Marks : 5 × 10 marks = 50 marks)

UNIT I

9. Write a note on contributions of Louis Pasteur to the field of Microbiology.

Or

10. Write a note on contributions of Robert Koch to the field of Microbiology.

UNIT II

11. Describe gram staining technique.

Or

12. Write a note on general characters of Protozoa.

[P.T.O]

UNIT III

13. Write a note on physical methods of Sterilization.

Or

14. Explain chemical methods of sterilization.

UNIT IV

15. Give a note on different isolation methods.

Or

16. Differentiate prokaryotes and eukaryotes at cellular level.

UNIT V

17. Describe the ultra structure of bacteria with neat diagram.

Or

18. Describe the structure and replication of HIV.

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