

FACULTY OF SCIENCE
B.Sc. II-Semester (CBCS) Examination, May / June 2018

Subject : Microbiology

Paper – II : General Microbiology - II

Time : 3 Hours

Max. Marks: 80

PART – A (5 x 4 = 20 Marks)
(Short Answer Type)

Note : Answer any FIVE of the following questions.

- 1 Radiation methods of sterilization
- 2 Surface disinfectants
- 3 Pure culture techniques
- 4 Sand culture preservation
- 5 Carbohydrates
- 6 Sphingolipids
- 7 Buffers
- 8 Colorimetry

PART – B (4 x 15 = 60 Marks)
(Essay Answer Type)

Note: Answer all the questions.

- 9 (a) Explain about the principle and working of autoclave and laminar air-flow.
OR
(b) What is phenol coefficient? Explain about phenol as chemical sterilizing agent.
- 10 (a) What is the significance of preservation of microbial cultures and write note on lyophilization?
OR
(b) Define enrichment and write about the micromanipulators and its use.
- 11 (a) Write about the general characteristics of amino acids.
OR
(b) Explain the structure of nucleotides with illustrations.
- 12 (a) What is hydrogen ion concentration and explain importance of pH in bacteriological studies.
OR
(b) Write about the principle and applications of electrophoretic techniques.
