FACULTY OF SCIENCE
B.Sc. II-Semester (CBCS) Examination, May / June 2017
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. Microplasma
2. Etiology of RMSF (Rocky Mountain Spotted Fever)
3. Importance of capsule in bacterial morphology
4. General characteristics of virus
5. Difference between saturated and unsaturated fatty acids
6. Classification of carbohydrates
7. Principle of colorimetry
8. Difference between DNA and RNA

PART – B (4 x 15 = 60 Marks)
(Essay Answer Type)
Note: Attempt ALL the questions.

9. (a) Describe in detail the five kingdom classification of living organisms.
   OR
   (b) Give a note on differences between prokaryotes and eukaryotes.

10. (a) Explain in detail the ultra structure of bacterial cell with illustration.
    OR
    (b) Give a detailed description on structure and morphology of HIV.

11. (a) What are amino acids? Describe the general characteristics of proteins.
    OR
    (b) Give a note on types and characteristics of lipids.

12. (a) Define pH and describe the importance of hydrogen ion concentration in biological fluids.
    OR
    (b) Write the principle of thin layer chromatography and give a note on its applications.

*****