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Code No. 269

**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.

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