FACULTY OF SCIENCE
B.Sc. II - Year Examination, March / April 2015
Subject: Bio-Technology (General)
Paper - II
Biological Chemistry and Microbiology

Time: 3 hours

Max. Marks: 100

Note: Answer all questions. All questions carry equal marks.

1 a) Describe the structure and biochemical importance of sucrose.  
   OR
   b) Give details of classification and nomenclature of enzymes.

2 a) Describe the deamination, decarboxylation and transamination reactions of amino acids.  
   OR
   b) Explain gluconeogenesis and its significance.

3 a) Describe the methods of isolation, identification and preservation of bacteria.  
   OR
   b) Describe the structure and general characters of viruses.

4 a) Explain the principle, applications and types of chromatography.  
   OR
   b) Discuss on dialysis and lyophilization.

5 Write short notes on any Three of the following:
   a) Centrifugation
   b) Chemical methods of sterilization
   c) Albinism
   d) Effect of pH on enzymatic reactions
   e) Primary structure of proteins

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