FACULTY OF SCIENCE
B.Sc. I-Semester (CBCS) Examination, December 2016
Subject: Bio-Chemistry

Paper I: Chemistry of Biomolecules

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. Dissociation constant
2. Specific rotation
3. Name two disaccharides, draw their structure
4. Structural polysaccharides
5. Lipoproteins
6. Micelles formation
7. Name two non-protein amino acids and their importance
8. Glutathione

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

9. (a) With suitable example explain Acid-base titration. OR
    (b) Derive Henderson-Hasselbalch equation.

10. (a) Outline the classification of carbohydrates. OR
    (b) Write about storage polysaccharides.

11. (a) Outline the properties of Biological membranes. OR
    (b) Name biological importance of prostaglandins and glycolipids.

12. (a) Draw peptide bond. Comment on its features. OR
    (b) Comment on protein structure organization.

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