

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 Hendersson-Hassel balch 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.
