

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
B.Sc., Winter 2017-18 Examination

Semester: 1
Subject Code: 11103101
Subject Name: Biochemistry-I

Date: 28-12-2017
Time: 10:30AM to 01:00PM
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Explain carbohydrate classification. (08)**
- Q.1. B) Write short note on (Any two)**
- (a) Properties of biomolecules. (04)
 - (b) Chemical properties of carbohydrates. (04)
 - (c) Starch. (04)
- Q.2. A) Answer the following questions.**
- (a) Characteristics of living matter. (04)
 - (b) Isomerism in carbohydrates (04)
- Q.2. B) Answer the following questions (Any two)**
- (a) Explain Fishers projection (03)
 - (b) Draw structure of Nitrogen bases and sugars. (03)
 - (c) Write Short Note on Epimers (03)
- Q.3. A) Explain protein structure. (08)**
- Q.3. B) Write short note on (Any two)**
- (a) Physical properties of amino acids (04)
 - (b) DNA structure (04)
 - (c) Peptide bond (04)
- Q.4. A) Write short note on**
- (a) Protein sequencing (04)
 - (b) Phospholipids (04)
- Q.4. B) Answer the following questions (Any two)**
- (a) Differentiate between saturated and unsaturated fatty acids (03)
 - (b) Differentiate between essential and non essential amino acids (03)
 - (c) Write short note on Properties of DNA (03)