

Hemchandracharya North Gujarat University
Bachelor of Vocation - Pharmaceutical Chemistry
End Term Examination, June, 2015

PC – 213 Fundamental of Biochemistry

Time: 2 hrs

Date: 3/6/15

Maximum marks: 50

Q.1 Answer all questions. Each question carries 1 mark .

(10*1=10 Marks)

1. Proteins are polymers of _____.
2. The number of mg of KOH required to hydrolyse 1 g fat or oil is known as _____.
3. Higher iodine value indicates presence of more number of _____ fatty acids in fat.
4. _____ is the example of sulfur containing essential amino acid.
5. Define Carbohydrates.
6. _____ is the general chemical test for the identification of carbohydrates.
7. As temperature increases, the rate of enzymatic reaction _____.
8. If two monosaccharide differ in configuration around a single carbon atom, they are known as _____.
9. Macromolecular complex of protein with lipid are called _____.
10. _____ chemical bonds are present as linkage between amino acids in proteins.

Q. 2 Answer any 5 questions. Each question carries 6 marks.

(5*6=30 Marks)

1. Discuss factors affecting enzyme activities.
2. What are enzymes? Explain enzyme classification.
3. Define Carbohydrates. Explain classification of carbohydrates.
4. What are lipids? Explain biological importance of lipids.
5. Explain classification of amino acids.
6. What is mutarotation? Discuss mutarotation of sugars.

Q.3 Answer any 1 question. Each question carries 10 marks.

(1*10=10 Marks)

1. Discuss secondary structure of proteins.
 2. Write a note on essential fatty acids.
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