

Pramukh Swami Science and H.D Patel Arts College, Kadi

B.Voc Pharmaceutical Chemistry

Internal Examination Semester II

Subject: Fundamental Biochemistry PC 213

Time: 2 hrs

Marks: 50

Q. 1 Answer any 10 questions. (Each question carries 1 mark) [10 x 1= 10]

1. Presence of polyhydroxy alcohol is the characteristic of _____ compound.
2. _____ is the polysaccharide employed for the assessment of kidney function.
3. _____ is the example of glycosaminoglycan that is used as an anticoagulant.
4. _____ is the example of an aldohexose while _____ is a ketohexos.
5. Osazone formation is the identification test for _____.
6. Macromolecular complex of protein with lipid are called _____.
7. Most of the fatty acids occurring in natural lipids show presence of _____ number of carbons.
8. _____ & _____ are the examples of essential fatty acids.
9. _____ are specialized cells of the body for storage of triacylglycerol.
10. Higher iodine value indicates presence of more number of _____ in fat.

Q.2 Answer any 4 questions. (Each question carries 5 marks) [4 x 5= 20]

1. What are carbohydrates? Discuss classification of carbohydrates.
2. What is mutarotation? Discuss mutarotation of sugars.
3. Enumerate various tests for carbohydrates and Discuss mechanism of Molisch's test.
4. Describe the structure and functions of mucopolysaccharides.
5. Discuss the structure and functions of 3 biochemically important disaccharides.
6. Define polysaccharides and describe the structure of 3 homo-polysaccharides.

Q.3 Answer any 4 questions. (Each question carries 5 marks) [4 x 5= 20]

1. What is triglyceride? Discuss classification of Lipids.
 2. Discuss functions of lipids in body.
 3. Write a note on essential fatty acids.
 4. Discuss hydrolysis, saponification and rancidity of lipids.
 5. Discuss various chemical test used to check purity of fats and oil.
 6. Write a note on phospholipids.
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