

Hemchandracharya North Gujarat University, Patan

Bachelor of Vocation

Pharmaceutical Chemistry Semester II

Mid SEM Examination, March- 2017

Subject: PC 213 Biochemistry

Time: 2 hrs

Date: 23/3/2017

Marks: 60

Q.1 Answer any 12 questions. Each question carries 1 mark [12*1=12]

- One of the following is not aldose
a) Glucose b) Galactose c) Mannose d) Fructose
- Differentiate aldose and keto sugar
- Give examples of 2 polysaccharides
- Which of the following is a simple sugar or monosaccharide?
a) Galactose c) Maltose
b) Lactose d) Sucrose
- What is the molecular formula for Glucose?
a) CH_3OH c) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$
b) $\text{C}_6\text{H}_{12}\text{O}_6$ d) $\text{C}_6\text{H}_{12}\text{O}_5$
- Maltose is composed of which two sugars?
a) Glucose and Glucose c) Glucose and Fructose
b) Glucose and Galactose d) Fructose and Galactose
- In which form Glucose is stored in animals?
a) Starch c) Dextrins
b) Glycogen d) Cellulose
- The polysaccharide found in the exoskeleton of insects is-
a) Hyaluronic acid c) Chitin
b) Cellulose d) Chondrosamine
- Differentiate essential and nonessential fatty acids.
- What is saturated fatty acids?
- Which sugar is present in Milk?
- What is isomer?

Q.2 Answer any 5 questions. Each question carries 04 marks

[5*4=20]

- Define carbohydrates and give examples of keto and aldose sugar
- Write a note on functions of carbohydrates.
- Explain the stereoisomers.
- Describe the biological importance of Disaccharides.
- Explain the classifications of Fatty acids
- Describe the Biological functions of lipids

Q.3 Answer any 4 questions. Each question carries 07 marks

[4*7=28]

1. Write a note on Polysaccharides
2. Explain in brief classification of carbohydrates
3. Write a note on disaccharides
4. Explain the classifications of lipids