

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III • EXAMINATION – SUMMER 2013

Subject Code: 130403**Date: 29/05/2013****Subject Name: Baisc Biochemistry****Time:02:30 to05:00****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What do you mean by ionization of water ? **07**
(b) Discuss in detail about classification of polysaccharides. **07**
- Q.2** (a) Explain how glycogen is synthesized? **07**
(b) Give a detail account on Pentose Phosphate Pathway. **07**
- OR**
- (b) Write in detail about cori cycle. **07**
- Q.3** (a) Write a note on Electron Transport Chain. **07**
(b) Define the term gluconeogenesis. Explain the process in detail. **07**
- OR**
- Q.3** (a) Discuss urea cycle with structure, location and significances. **07**
(b) Enlist and explain physical properties of amino acids **07**
- Q.4** (a) Describe the β -oxidation of fat with suitable example. **07**
(b) Define the term derived lipid. Write in detail about classification of fat. **07**
- OR**
- Q.4** (a) With structure explain the degradation mechanism of purine nucleotides. **07**
(b) Define and give brief explanation about nucleosides, nucleotides and nitrogenous bases. **07**
- Q.5** (a) Enlist various water soluble vitamins and fat soluble vitamins. Discuss about vitamin A in detail **07**
(b) Give short note on animal hormones in detail **07**
- OR**
- Q.5** (a) Explain about glycolipid with suitable example **07**
(b) Discuss functional classification of proteins. **07**
