Seat No.:	Enrolment No.

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

Subject Code: 130403 Subject Name: Baisc Biochemistry			Date: 30-11-2013	
Tin	ne:02 ructio 1. 2.	2:30 pm - 05:00 pm Total Marks: ons: Attempt all questions.	70	
Q.1	(a) (b)	Write a note on monosaccharide. Give detail account on gluconeogenesis.	07 07	
Q.2	(a) (b)	Explain about how pyruvate gives rise to ATP via TCA cycle? With physiological significances explain pentose phosphate pathway. OR	07 07	
	(b)	Describe in detail about the process of ATP synthesis by ATP synthetase.	07	
Q.3	(a) (b)	Draw a neat diagram of urea cycle with its significances. Define with suitable example about glucogenic and ketogenic amino acid. OR	10 04	
Q.3	(a) (b)	Discuss in detail about β - oxidation of fat. What do you understand by denaturation and renaturation phenomena of protein?	07 07	
Q.4	(a)	Define and explain the term transamination reaction with suitable reaction	10	
	(b)	format. Discuss about physical properties of amino acids. OR	04	
Q.4	(a)	Write in detail about various structural components of nucleic acid with structure.	07	
	(b)	Classify the lipids based on their structural complexity.	07	
Q.5	(a) (b)	Explain about protein structural architecture. Define the term hormone with its mechanism of action for cell surface receptors.	07 07	
Q.5	(a) (b)	OR With structural representation draw the pathway of purine degradation. Write a note on fat soluble vitamins.	07 07	
