Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

## BE - SEMESTER-III • EXAMINATION – SUMMER 2013

Su	bject	t Code: 130403 Date: 29/05/2 t Name: Baisc Biochemistry	
	tructio 1. 2.	12:30 to05:00 Total Mark ons: . Attempt all questions Make suitable assumptions wherever necessary Figures to the right indicate full marks.	KS: 7U
Q.1	(a) (b)	What do you mean by ionization of water? Discuss in detail about classification of polysaccharides.	07 07
Q.2	(a) (b)	Explain how glycogen is synthesized? Give a detail account on Pentose Phosphate Pathway.  OR	07 07
	<b>(b)</b>	Write in detail about cori cycle.	07
Q.3	(a) (b)	Write a note on Electron Transport Chain.  Define the term gluconeogenesis. Explain the process in detail.  OR	07 07
Q.3	(a) (b)	Discuss urea cycle with structure, location and significances. Enlist and explain physical properties of amino acids	
Q.4	(a) (b)	Describe the β-oxidation of fat with suitable example.  Define the term derived lipid. Write in detail about classification of fat.  OR	
Q.4	(a) (b)	With structure explain the degradation mechanism of purine nucleotides.  Define and give brief explanation about nucleosides, nucleotides an nitrogenous bases.	07 nd 07
Q.5	(a)	Enlist various water soluble vitamins and fat soluble vitamins. Discuss abovitamin A in detail	out <b>07</b>
	<b>(b)</b>	Give short note on animal hormones in detail <b>OR</b>	07
Q.5	(a) (b)	Explain about glycolipid with suitable example Discuss functional classification of proteins.	07 07

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