Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- III (NEW) EXAMINATION – SUMMER 2015

Subject Code: 2130403 Subject Name: BASIC BIOCHEMISTRY			Date: 02/06/2015	
Time: 02.30pm-05.00pm Instructions:			Total Marks: 70	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Draw the structure of the DNA. What are its components? How transportation of fats occur?	10 04	
Q.2	(a) (b)	What is the biological significance of lipids? Draw the structure of lactose and explain its properties. OR	07 07	
	(b)	Draw and explain TCA cycle.	07	
Q.3	(a) (b)	What are the forces involved in stability of proteins? Draw and explain the two dimensional structure of proteins. OR	06 08	
Q.3	(a) (b)	Explain the general structure of amino acids. Explain how amino acid can act as both acid and base.	07 07	
Q.4	(a) (b)	Explain the properties of water. Explain the role of iron.	07 07	
Q.4	(a) (b)	OR Explain the role of Vitamin A. Explain the role of mRNA, rRNA and tRNA.	07 07	
Q.5	(a) (b)	Draw and explain oxidative phosphorylation. What are the different types of carbohydrate?	10 04	
Q.5	(a)	OR Draw and explain the structure of starch.	10	
٧.٠	(b)	Explain the cyclic property of monosaccharides.	04	
