Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–III • EXAMINATION – SUMMER 2014

Subject Code: 130403 **Date: 28-05-2014**

Subject Name: Basic Biochemistry

Time: 02.30 pm - 05.00 pm **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 are the properties of water?	**07**
	(b)	Draw structure of amylose and amylopectin.	**07**
Q.2	**(a)**	Draw structure of DNA.	**07**
	(b)	Explain the function of ant two plant hormones.	**07**
		OR	
	(b)	Explain the role of vitamin A.	**07**
Q.3	**(a)**	Enlist the diseases caused by deficiency of macro minerals.	**07**
	(b)	What are the different types of RNA? Explain their function.	**07**
		OR	
Q.3	**(a)**	Explain the function of insulin.	**07**
	(b)	Draw structure of tRNA.	**07**
Q.4	**(a)**	Give short note on cellulose.	**07**
	(b)	Give biological significance of lipids.	**07**
		OR	
Q.4	**(a)**	Draw TCA cycle.	**07**
	(b)	Write short note on classification of lipids.	**07**
Q.5	**(a)**	Draw secondary structure of proteins.	**07**
	(b)	Which forces are involved in stabilization of tertiary structure of protein?	**07**
		OR	
Q.5	**(a)**	Explain the physical and chemical properties of aminoacid.	**07**
	(b)	Explain how beta oxidation of saturated fatty acids occurs.	**07**

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