

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 any 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 amino acid. **07**
(b) Explain how beta oxidation of saturated fatty acids occurs. **07**
