Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 130403 Subject Name: Basic Biochemistry			Date: 05-01-2013	
Time	: 10.	30 am – 01.00 pm Total Marks: 70)	
Instr	1. A 2. N	ONS: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	1 1	07 07	
Q.2	(a) (b)	Describe in detail about structural properties of disaccharides. Discuss in detail about structural properties of polysaccharides. OR	07 07	
	(b)		07	
Q.3	(a) (b)		07 07	
Q.3	(a) (b)	OR Draw the pentose phosphate pathway with structure. Define and differentiate between polar, non polar and intermediate polar amino acids	10 04	
Q.4	(a) (b)		07 07	
Q.4 Q.4	(a) (b)	Discuss the pyrimidine biosynthetic pathway with structure. Draw the structure of adenine (A) and quinine (G) nitrogenous base with chemical name.	10 04	
Q.5	(a)	ı	07	
	(b)	Monosaccharide, disaccharide, polysaccharide Explain structural classification of lipids.	07	
Q.5	(a) (b)	OR What are the physiological and chemical properties of water? Differentiate between fat soluble and water soluble vitamins with suitable example.	07 07	
