Seat	No.: <u>-</u>	Enrolment No. GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2015	
Subject Code: 2230003Date: 11-06-2015Subject Name: Pharmaceutical Chemistry – III (Biochemistry – I)Time: 02:30 pm - 05:30 pmInstructions:			
mstr	1. 2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	polysaccharides.	06 05 05
Q.2	(a) (b) (c)	How is galactose metabolized in the body? Explain carnitine shuttle transport for fatty acids. What is metabolic water? Discuss the transport mechanism across cell membrane.	06 05 05
Q.3	(a) (b) (c)		06 05 05
Q.4	(a) (b) (c)	Describe various chemical tests to check the purity of fats and oils.	06 05 05
Q.5	(a) (b) (c)	•	06 05 05
Q. 6	(a) (b) (c)	 Differentiate following pairs: (Any two) i) α-oxidation and β-oxidation ii) Gluconeogenesis and Glycolysis iii) Enzymes and Co-enzymes Explain significance of metals and vitamins as co-enzymes. Describe absorption, transport and storage of iron in body. 	06 05 05
Q.7	(c) (a) (b) (c)	Classify enzymes. Write a note on factors affecting enzyme activity. Give an account on mechanisms of enzyme action. Discuss biochemical role and mechanism of regulation of blood calcium.	06 05 05
