## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.PHARM - SEMESTER- 3 EXAMINATION – SUMMER -2019

Subject Code: BP303TP Subject Name: Biochemistry			Date: 01-06-2019	
Time Instru 1. 2.	e: 02: ictions Atte Mak	:30 PM TO 05:30 PM	Total Marks: 80	
Q.1	(a) (b) (c)	Enlist unsaturated fatty acids and discuss oxidation of omega-3 Discuss amphibolic nature of citric acid cycle. Explain β-oxidation of fatty acid	3 fatty acid	06 05 05
Q.2	(a) (b) (c)	Explain the properties and identification tests of carbohydrate Define: Iodine number, Saponification number, Acid number, Rancidity, Mutarotation Write a note on TCA cycle		06 05 05
Q.3	(a) (b) (c)	Discuss importance of Cori's cycle Discuss the Synthesis of Glucose from Non-Carbohydrate sour Write a note on regulation of enzyme activites	rces	06 05 05
Q.4	(a) (b) (c)	Write a note on galactose and fructose Write a note on cholesterol biosynthesis Discuss the transport mechanism across cell membrane		06 05 05
Q.5	(a) (b) (c)	Describe the structures and function of mucopolysaccharides Describe the Watson and Crick Model of DNA Structure Discuss enzyme kinetics in brief and its mechanism of action		06 05 05
Q. 6	(a) (b) (c)	Explain Metals and Vitamins as Co-enzyme and their Significa Write a note on protein synthesis and inhibitors. Write a note on Lipid Storage Diseases		06 05 05
Q.7	(a) (b) (c)	Explain the genetic code with its characteristics Explain in detail the process of RNA synthesis. Describe significance of melatonin and dopamine.		06 05 05

\*\*\*\*\*