Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - V • EXAMINATION - WINTER 2013

	Subjections Time Instru 1. 2.	ect Code: 250003 Date: 02-12-2013 ect Name: Pharmaceutical chemistry-V (Bio-chemistry) 10.30 am - 01.30 pm Total Marks: 80 ections: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Write a note on determination of primary structure of proteins	06
	(b)	Write a note on functional and nutritional classification of proteins	05
	(c)	Write a note on transport mechanism across cell membrane	05
Q.2	(a)	Define and classify carbohydrates with suitable examples. Discuss functions of carbohydrates	06
	(b)	Define triacylglycerols with its structure. Discuss its properties	05
	(c)	Write a note on Phospholipids	05
Q.3	(a)	Define co-enzymes. Add a note on role of vitamin derived co-enzymes in enzyme action	06
	(b)	Write a note on competitive enzyme inhibition	05
	(c)	· ·	05
Q.4	(a)	Write a note on significance of serum enzymes in diagnosis of disease	06
	(b)	Discuss reactions of Galactose metabolism	05
	(c)	Discuss citric acid cycle in detail	05
Q.5	(a)	Write a note on Gluconeogenesis	06
	(b)	Discuss importance of Cori's cycle	05
((c)	Write a note on Glycogen storage disorders	05
Q. 6	(a)	Discuss reactions of Pantose Phosphate Pathway	06
	(b)	Write a detail note on Polysaccharides	05
	(c)	Write a note on role of hormone in maintenance of Blood sugar level	05
Q. 7		Discuss Glycolysis with its energetic	06
	(b)		05
	(c)	Define and give various classifications of fatty acid with suitable examples	05
