Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - III • EXAMINATION - WINTER • 2016

	Subje	ect Code: 2230003 Date: 23-11	-2016
	Subje	ect Name: Pharmaceutical Chemistry – III (Biochemistry I)	
,	Time	: 02:30 pm - 05:30 pm Total Mar	ks: 80
]	Instru	actions:	
		1. Attempt any five questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	
Q.1	(a)	What are carbohydrates? Describe reactions of Monosaccharide.	06
	(b)		05
	(c)	Write a note on TCA cycle.	05
Q.2	(a)	Describe HMP shunt along with its Significance.	06
	(b)		05
		I) Glycolysis II) Glycogenesis III) Epimer IV) Mutarotation.	
		V)Apoenzymes	0.=
	(c)	Differentiate Saturated and Unsaturated Fatty Acids.	05
Q.3	(a)	Explain Metals and Vitamins as Co-enzyme and their Significance.	06
	(b)		05
	(c)	Short note on Role of Hormones in Maintenance of Blood Sugar Level.	05
Q.4	(a)	Classify Enzyme with examples.	06
	(b)	Explain Mechanism of Enzyme Action.	05
	(c)	Short Note on Mineral Metabolism.	05
Q.5	(a)	What are Fatty acids? Explain various parameters measured to check purity of	06
		Fats and Oils.	
	(b)		05
	(c)	How is Galactose metabolized in our Body?	05
Q. 6	(a)	Discuss Aerobic Glycolysis with energetics.	06
	(b)	. ,	05
	(c)	Write a short note on (Any two)	05
		1) Lipoprotein	
		2) Enzyme kinetics	
		3) Mitochondria	
Q.7	(a)	Discuss Transport Mechanism across Cell membrane.	06
	(b)	Write a note on Phospholipids.	05
	(c)	Write a note on Lipid Storage Diseases.	05
