Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 3- EXAMINATION –WINTER - 2018**

·		Code: 2230003 Date: 10/12/2018	
•	e: 10 uctior		
	2.	Attempt any five questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What are Carbohydrates? Give classification of carbohydrates with examples.  Define Following term: (a)Epimers (b)Anomers (c) Mutarotation (d) Reducing sugar(e) Mutarotation (f) Tautomerization	06 05
	(c)	Write Principle of (a) Seliwanoff's test (b) Osazone Test	05
Q.2	(a) (b) (c)	Discuss Glycolysis with energetics Discuss Citric acid cycle. How many molecule of ATP are produce in the cycle? Write short note on Gluconeogenesis.	06 05 05
Q.3	(a) (b) (c)	Give an account of Hexose monophosphate pathway and mention its importance. Give an account of Fructose metabolism in body?  Short note on Role of Hormones in Maintenance of Blood Sugar Level.	06 05 05
Q.4	(a) (b) (c)	What are Phospholipids? Classify them and write the functions of phospholipids. Define Lipids. Classify them with example. What are fatty acids? Explain the various parameters measured to check the purity of fats and oils.	06 05 05
Q.5	(a) (b) (c)	Write a note on $\beta$ –oxidation of fattyacids. Write note on Cholesterol biosynthesis. What are ketone bodies? Write note on ketogenesis along with its regulations	06 05 05
Q. 6	(a) (b) (c)	Define Enzyme and classify it. Explain Mechanism of Enzyme action. Write a note on Isoenzyme.	06 05 05
Q.7	(a) (b) (c)	Explain Metals and Vitamins as Co-enzyme and their Significance. Short Note on Mineral Metabolism. Discuss the process of active transport across cell membrane.	06 05 05

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