

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM . - SEMESTER-3 • EXAMINATION – WINTER -2021

Subject Code:2230003**Date: 19/02/2022****Subject Name: Pharmaceutical Chemistry-III (Biochemistry-I)****Time: 10:30 A.M. to 01:30 P.M.****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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