

GUJARAT TECHNOLOGICAL UNIVERSITY
PHARM.D YEAR-1 EXAMINATION – SUMMER - 2025

Subject Code: 818803**Date: 02-06-2025****Subject Name: Medicinal Biochemistry****Time: 10 : 30 AM TO 1 : 30 PM****Total Marks: 70****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 cholesterol biosynthesis.	06
	(b) Write about glycogen storage diseases.	04
	(c) Write about hormonal regulation of carbohydrate metabolism.	04
Q.2	(a) Write a short note β Oxidation.	06
	(b) Explain transport process across the cell membranes.	04
	(c) Describe DNA replication.	04
Q.3	(a) Describe metabolic disorders of amino acids.	06
	(b) Explain ketone bodies formation with its regulations.	04
	(c) Write a brief note on electrolytes.	04
Q.4	(a) Write a short note active and passive transport across the cell membrane.	06
	(b) Explain lipid profile tests.	04
	(c) Explain genetic code in detail.	04
Q.5	(a) Explain TCA cycle.	06
	(b) Discuss ATP-ADP cycle and give bio-significance of ATP	04
	(c) Discuss metabolism of pyrimidine nucleotides.	04
Q. 6	(a) What are phospholipids? Classify them and write the functions of phospholipids.	06
	(b) Discuss deamination and transamination.	04
	(c) Discuss role of water and water balance.	04
Q.7	(a) Give an overview of urea cycle.	06
	(b) Write a note on lipoprotein.	04
	(c) Write a short note on ELISA.	04
