Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 4 EXAMINATION - WINTER -2019

Subject Code: 2240003	Date: 20-12-2019

Subject Name: Pharmaceutical Chemistry – V (Biochemistry – II)

Time: 02:30 PM TO 05:30 PM 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) (b) (c)	Define Amino acid. Classify amino acid on the basis of structure. Discuss the Secondary Structure of Protein. Write a note on Structure of RNA.	06 05 05
Q.2	(a) (b) (c)	Discuss the Initiation, Elongation and Termination of Protein Biosynthesis. Write a note on Denaturation of Protein. Define Porphyrin and Give the Biosynthesis of Heme.	06 05 05
Q.3	(a) (b) (c)	Write a note on ETC. Discuss the Enzyme involve in Biological oxidation. Write a note on Inhibitors of Oxidative Phosphorylation.	06 05 05
Q.4	(a) (b) (c)	Write a note on Oxidative Phosphorylation. Discuss the Concept of Free energy. Discuss the DNA repair mechanism.	06 05 05
Q.5	(a) (b) (c)	Discuss the Transamination and Deamination in detail. Discuss the synthesis of RNA from DNA template. Write a note on Genetics Code.	06 05 05
Q. 6	(a) (b)	Give the Reaction of Urea Cycle and discuss the metabolic disorder of Urea Cycle. Give the reaction of Pyrimidine biosynthesis.	06 05
	(c)	Discuss the Lac Operon Concept.	05
Q.7	(a) (b) (c)	Give the reaction of Purine nucleotides. Write a note on DNA Replication. Discuss the Southern Blotting technique as an analytical tool for identification of nucleic acid.	06 05 05
