

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020****Subject Code:2173606****Date:21/01/2021****Subject Name:Medicinal Chemistry-II & Technology of Sterile Products****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Define Protein. Classify proteins & Explain denaturation	03
	(b) Explain Provitamin A, uses & deficiency symptoms	04
	(c) Write the Synthesis of Riboflavin	07
Q.2	(a) What are porphyrins & give its properties	03
	(b) List out comparison between chlorophyll & Haemin	04
	(c) Write the synthesis of Haemin	07
Q.3	(a) Write the Synthesis of Vitamin A & Vision Cycle	03
	(b) Discuss about protein & peptide drugs and their route of administration & biomedical applications	04
	(c) Write synthesis of Vitamin B9. Discuss its source, deficiency and uses.	07
Q.4	(a) Write note on Chlorophyll, Chlorophyllin and its uses.	03
	(b) What is Niacin & explain any one scheme of synthesis for Niacin & write its uses.	04
	(c) Give structures of FMN & FAD Coenzymes & explain role of Provitamin A in Vitamin A synthesis	07
Q.5	(a) Define i. Carbohydrates ii. Proteins iii. Polypeptides	03
	(b) What are functions of carbohydrates and explain Monosaccharides & Oligosaccharides	04
	(c) Write synthesis of Vitamin C. Discuss its sources, uses and deficiency	07
Q.6	(a) Explain synthesis of collagen and its uses	03
	(b) Explain biochemistry & Kinetics of Vitamin B12	04
	(c) Illustrate synthesis of Dipyrrylmethene intermediates of chlorophyll A.	07
Q.7	(a) Write a brief description of marine natural drug products with example. Mention their advantages & disadvantages	03
	(b) Write a detailed note on surgical sutures & ligatures	04
	(c) Write the biosynthesis of Eicosanoids	07
Q.8	(a) Explain Pyrethrin & Pyrethroid with examples	03
	(b) What are Pheromones? What are the different kinds of Pheromones? Give suitable examples. What are the advantages of pheromones over insecticide	04
	(c) What are Eicosanoids? Give examples and what are their functions. Write any three therapeutic uses of Eicosanoids	07
