

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019

Subject Code: 2173606
Date: 26/11/2019
Subject Name: Medicinal Chemistry-II & Technology of Sterile Products
Time: 10:30 AM TO 01:00 PM
Total Marks: 70
Instructions:

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

		MARKS
Q.1	(a) Define Ophthalmic dosage forms. What are the types of ophthalmic preparations? What are the general safety considerations in these preparations	03
	(b) Write short notes on Vitamin B7 & Vitamin E	04
	(c) Define parenteral dosage forms. Describe the evaluation of Parenteral dosage forms.	07
Q.2	(a) What are Eicosanoids? Give examples and what are their functions?	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) Explain Vitamin K cycle and write its uses	07
	OR	
	(c) Write the synthesis of Riboflavin.	07
Q.3	(a) Write a note on ocular delivery system	03
	(b) Write a detailed note on surgical sutures & ligatures	04
	(c) Write the synthesis of Haemin	07
	OR	
Q.3	(a) What are the preformulation factors for Parenterals.	03
	(b) Write a note on Blood products and their preservation	04
	(c) Illustrate the synthesis of Dipyrromethene intermediate of Chlophyll- A	07
Q.4	(a) Explain the synthesis of collagen & uses of it.	03
	(b) Write the synthesis of Vitamin A & vision cycle.	04
	(c) Define pharmaceutical product stability and write a note on stability	07
	OR	
Q.4	(a) Write the commercial synthesis of Thiamine & give its Biochemistry & uses.	03
	(b) Explain Provitamin A, and uses & deficiency syndrome.	04
	(c) Discuss about Parenteral formulation components in detail	07
Q.5	(a) Differentiate between water soluble & fat soluble vitamins.	03
	(b) Discuss about Protein & Peptide drugs, their route of administration & biomedical applications	04
	(c) Write Vitamin C synthesis, discuss its sources, deficiency & uses.	07
	OR	
Q.5	(a) Explain Vitamin B12 with its Biochemistry & kinetics.	03
	(b) What are the functions of Carbohydrates and explain monosacchrides & Oligosacchrides.	04
	(c) Write Vitamin B9 synthesis, discuss its sources, deficiency & uses.	07
