

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2173606****Date: 19/11/2018****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
<b>Q.1</b>	(a) Define Parenteral dosage form. What are the special criteria for the parenterals?	<b>03</b>
	(b) Write a note on intraocular dosage forms.	<b>04</b>
	(c) Write the commercial synthesis of Vitamin B1 (Thiamine). Discuss its deficiency and uses.	<b>07</b>
<b>Q.2</b>	(a) What are the advantages & disadvantages of Marine natural products. Give one example each in anti-inflammatory & anti-fungal drugs.	<b>03</b>
	(b) Write a note on packaging of ophthalmic products.	<b>04</b>
	(c) Discuss about Parenteral formulation components in detail	<b>07</b>
	<b>OR</b>	
	(c) Discuss about the evaluation of parenteral preparations	<b>07</b>
<b>Q.3</b>	(a) Explain the method of Pyrogen testing	<b>03</b>
	(b) Discuss the advantages of Pheromones over insecticides	<b>04</b>
	(c) Write the steps in the biosynthesis of Eicosanoids.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) List out the comparison between Chlorophyll & Haemin	<b>03</b>
	(b) List out the sections of a typical parenteral production area. Draw the layout of parenteral preparation facility	<b>04</b>
	(c) What are Pheromones? Discuss about its action & kinds of Pheromones in detail.	<b>07</b>
<b>Q.4</b>	(a) Define Ophthalmic preparation. Discuss its safety factors.	<b>03</b>
	(b) What are Pyrethroids? Give two examples. Discuss the uses of pyrethroids.	<b>04</b>
	(c) Write any one synthesis of Pantothenic acid. Discuss its source, deficiency & uses.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Write the classifications of ocular drug delivery system	<b>03</b>
	(b) Write the structure, use & MOA of any two Carbohydrate drugs.	<b>04</b>
	(c) Write the synthesis of Vitamin C. Discuss its source, deficiency & uses.	<b>07</b>
<b>Q.5</b>	(a) What are Eicosanoids? What are its functions?	<b>03</b>
	(b) Write the synthesis of Vitamin A2 from Vitamin A1	<b>04</b>
	(c) Define pharmaceutical product stability and write a note on stability.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Write a note on Chlorophyll, Chlorophyllin and uses.	<b>03</b>
	(b) Discuss about the Protein & Peptide drugs, their route of administration & biomedical applications.	<b>04</b>
	(c) Discuss the manufacturing considerations & techniques of ophthalmic dosage forms.	<b>07</b>

\*\*\*\*\*