Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. - SEMESTER- V • EXAMINATION – SUMMER-2016

Subj Time Instru 1. 2.	ect N e:2:30 ctions Atte Mak	Code: 2250004 Date: 06/05/2016 Name: Pharmaceutical Chemistry-VI (Medicinal Chemistry-I) O PM to 5:30 PM Total Marks: 80 Empt any five questions. The suitable assumptions wherever necessary. The suitable indicate full marks.	
Q.1	(a) (b) (c)	Give name, structure and uses of any two compounds of following 1. Antitussive agents 2. Antiasthmatic agents Write a note on Mucolytics and Decongestants. What are diagnostic agents? Write a note on radiopharmaceuticals.	06 05 05
Q.2	(a) (b) (c)	Enumerate the physicochemical properties affecting biological activity. Explain Hydrogen bonding properties in detail. Write a note on development of Medicinal Chemistry. Write a note on geometric & optical isomerism.	06 05 05
Q.3	(a) (b) (c)	Explain the following terms with examples 1. Antacids 2. Laxatives 3. Irritable bowel syndrome Give synthesis of Ranitidine and Omeprazole. What is peptic ulcer? Give brief note on H ₂ -antagonists.	06 05 05
Q.4	(a) (b) (c)	Define Bioisosterism. How they are useful in designing new drug. Write a note on Eicosanoids Approved for Human Clinical use. Write note on Neuromuscular blocking agents.	06 05 05
Q.5	(a) (b) (c)	Enlist various histaminic receptors. Discuss neurochemistry of histamine. What are Eicosanoids? Write in brief about Eicosanoid biosynthesis. Outline synthesis of Diphenhydramine and Chlorcyclizine.	06 05 05
Q. 6	(a) (b) (c)	Give the synthesis and use of Propranolol and Atenolol. Write SAR of Beta-Phenylethanolamine class of Sympathomimetic agents. Write a note on Ganglionic blockers.	06 05 05
Q.7	(a) (b) (c)	Define and classify cholinergic agents. Explain the SAR of Parasympathomimetics. Write a note on Parasympatholytic agents. Outline synthesis and uses of Diphenoxylate and Cetrizine.	06 05 05
