GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER-V • EXAMINATION - SUMMER 2017

Subject Code: 2250004 Date: 08/06. Subject Name: Pharmaceutical Chemistry VII (Medicinal Chemistry-			
Time: 10:30 AM to 01:30 PM Total Marks:			0
Instru	uctions	s:	
1.	Atte	empt any five questions.	
2.	Mal	ke suitable assumptions wherever necessary.	
3.	Figu	res to the right indicate full marks.	
Q.1	(a)	What is Medicinal Chemistry? Give importance of Medicinal chemist in drug development.	06
	(b)	What is bioisosterism? Explain in detail with examples.	05
	(c)	How stereochemistry affects biological action of drugs.	05
Q.2	(a)	Write a note on Partition coefficient and Ionization that affect biological	06

Write a short note on Antitussives. 05 **(b)** Write Chemical name and synthesis of Salbutamol and diatriazoic acid. 05 (c) Q.3 What is asthma? Explain antiasthmatics in detail. 06 (a) **(b)** Give a note on radiological contrast media. 05 Discuss chemistry and biosynthesis of histamine. 05 (c) **Q.4** Give SAR of antihistaminic agents. **06** (a) **(b)** Give chemical name and synthesis of diphenhydramine and cetrizine. 05 Explain eicosanoids approved for human clinical use. 05 (c) **Q.5** What are proton pumps Inhibitors? Explain its mechanism of action. Give 06 (a) Synthesis of Omeprazole. Write a note on Prokinetics and laxatives. **(b)** 05

(c) Write a note on Antiemetics and antidiarrheals.
Q. 6 (a) Give SAR of cholineesters (Parasympathomimetics).
(b) Write a note on Neuromuscular Junction blockers.
(c) Classify Muscarinic antagonists with suitable examples.
05

Q.7 (a) Write SAR of β-Phenylethanolamine.
(b) Give Chemical name and synthesis of Dicyclomine HCl and Atenolol
(c) Write a note on β-blockers.
