Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER–V- (NEW SYLLABUS) EXAMINATION – SUMMER-2015

Subject Code: 2250004 **Date: 04/05/2015**

Subject Name: Pharmaceutical Chemistry VII (Medicinal Chemistry I)

Time:2:30 pm to 5:30 pm **Total Marks: 80**

Instructions:

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

Q.1	**(a)**	Write a note on Partition coefficient and Ionization that affect biological activity.	**06**
	(b)	What is Medicinal Chemistry? Give importance of Medicinal chemistry in drug discovery.	**05**
	(c)	Write a short note on Bioisosterism.	**05**
Q.2	**(a)**	How Isomerism affect the biological activity.	**06**
	(b)	What is asthma? Explain antiasthmatics in detail.	**05**
	(c)	Write a short note on Expectoranats and Antitussives.	**05**
Q.3	**(a)**	Discuss SAR of antihistamines.	**06**
	(b)	Explain eicosanoids approved for human clinical use.	**05**
	(c)	Write a short note on H_2-receptor antagonist	**05**
Q.4	**(a)**	Write a note on Diagnostic agents.	**06**
	(b)	Give SAR of cholineesters (Parasympathomimetics).	**05**
	(c)	Write a short note on Neuromuscular Junction Blockers.	**05**
Q.5	**(a)**	Give classification of Parasympatholytics with suitable examples.	**06**
	(b)	Write IUPAC name and synthesis of Cyproheptadine and Chlorpheniramine.	**05**
	(c)	Write a short note on Protom pump inhibitors.	**05**
Q. 6	**(a)**	Give SAR of Beta-blockers.	**06**
	(b)	Write a note on Prokinetics and laxatives.	**05**
	(c)	Give IUPAC name and synthesis of Dicyclomine HCl and Atenolol.	**05**
Q.7	**(a)**	Give classification of Sympathomimetics with suitable examples.	**06**
	(b)	Write IUPAC name and synthesis of Omeprazole and Ranitidine.	**05**
	(c)	Write Neurochemistry of Acetylcholine.	**05**

****