Seat No.: _____

Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 5 EXAMINATION - SUMMER -2019

Subject Code: 250004	Date: 03-06-2019
Cubicat Names Dharmacoutical Chamistry	VI (Modicinal)

Subject Name: Pharmaceutical Chemistry - VI (Medicinal)

Time: 02:30 PM TO 05:30 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)	What are proton pumps inhibitors? Explain its mechanism of action. Sketch the important steps involved in synthesis of Omeprazole.	06
	(b)	Write a note on antitussive agents.	05
	(c)	How does protein binding affect biological activity?	05
Q.2	(a)	Give structure, IUPAC name and synthesis of following compounds. 1. Cetrizine 2. Chlorpheniramine	06
	(b)	Give reactions of Pyrrole.	05
	(c)	Write about effect of hydrogen bonding and stereoisomerism on biological activity.	05
((a)	Give preparations of Furan.	06
	(b)	What is peptic ulcer? Give brief note on H2-antagonists.	05
	(c)	Write in detail about the chemistry of prostaglandins.	05
(b	(a)	Explain following terms with examples 1. Prokinetics 2. Laxatives 3. Irritable bowel syndrome.	06
	(b)	Define antihistaminic agents and write SAR of H1 receptor blockers.	05
	(c)	Write down various reactions of Thiazole and Imidazole.	05
((a)	Write structure and IUPAC name of Diphenhyramine, Doxylamine and Chlorcyclizine.	06
	(b)	Discuss reactivity of pyridine towards electrophiles and nucleophiles.	05
	(c)	Explain the physicochemical parameters affecting drug absorption.	05
Q. 6	(a)	Classify antiasthmatic agents and discuss about bronchodilators.	06
_	(b)	Give preparation of Quinoline.	05
	(c)	Write a note on mucolytic agents.	05
(1	(a)	Write structure and IUPAC name of Salbutamol, Bromhexine and Nikethamide.	06
	(b)	Write a note on antidiarrheals.	05
	(c)	Write a note on radiological contrast media. Give synthesis of Diatriazoic acid.	05
