Seat No.: _____

Enrolment No. _____

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

Subject Code: 2250004 Subject Name: Pharmaceutical Chemistry – VII (Medicinal Chemistry - I) 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)	Discuss the following physicochemical parameters in relation to biological activity (i) Protein binding (ii) Solubility	06
	(b) (c)	(i) Protein binding (ii) Solubility Write briefly about Bioisosterism. Explain how optical isomerism affects drug action.	05 05
Q.2	(a) (b) (c)	Define expectorants, Antitussives and respiratory stimulants with examples. Explain antiasthmatics in detail. Write short notes on Prokinetics.	06 05 05
Q.3	(a) (b)	Discuss Antisecretary agents and proton pump inhibitors. Give IUPAC name and synthesis of the following drugs: (i) Ranitidine (ii) Omeprazole	06 05
	(c)	Explain the followings with examples; (i) Antispasmodics (ii) Drugs for IBS	05
Q.4	(a)	Write IUPAC name and synthetic routes of the following drugs: (i) Chorcyclizine (ii) Promethazine (iii) Cyproheptadine	06
	(b) (c)	What are H ₁ receptor antagonists. Classify them with examples. What are eicosanoids? Write briefly about biosynthesis of Prostaglandins.	05 05
Q.5	(a) (b) (c)	Write short notes on Radiopharmaceuticals as diagnostic agents. Write ideal properties of Antacids. Write in detail about Antidiarrheal agents.	06 05 05
Q. 6	(a) (b) (c)	Write SAR of muscarinic antagonists. Explain Neuromuscular blocking agents. Write short notes on (i) β- blockers (ii) Hydrogen bonding and drug action	06 05 05
Q.7	(a)	Write IUPAC name and synthesis of (i) Propranolol (ii) Adrenaline (ii) Diatrizoic acid	06
	(b) (c)	Give SAR of Parasympathomimetics. Write short notes on antiemetics.	05 05
