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Seat N	lo.:	Enrolment No	
GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph SEMESTER-V • EXAMINATION – WINTER -2019			
Subject Code: 250004Date: 22/11/2019Subject Name: PHARMACEUTICAL CHEMISTRY-VI (MEDICINAL)Time: 3 Hours (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) (b) (c)	Enumerate and define physicochemical properties of drug molecules. Explain Ionization and Hydrogen bonding in detail. What is Bioisosterism? Classify and Explain in brief with examples. What are geometric isomers? Explain with examples of drugs which are influencing the biological activity.	06 05 05
Q.2	(a) (b) (c)	Give structure of following drugs: 1) Omeprazole 2) Salbutamol 3) Promethazine 4) Diphenhydramine 5) Ranitidine Define expectorants, mucolytics and decongestants. Explain expectorants in detail Write a detail note on Antitussive agents	06 05 05
Q.3	(a) (b) (c)	Write any two reactions of pyridine and thiophene Explain the following with reaction mechanism (1) Skraup's synthesis (2) Fischer synthesis Give synthesis of Diphenhyramine and Cetrizine	06 05 05
Q.4	(a) (b) (c)	Describe biosynthesis of prostaglandins in detail. Biological actions and clinical applications of Prostaglandins and thromboxane. What are Eicosanoids? Discuss COX pathway. Write a note on Enzyme preparations for GIT disorders.	06 05 05
Q.5	(a) (b) (c)	Define and classify anti-asthmatic agents with examples. Discuss the SAR of H1-Antagonists. Discuss radio contrast media.	06 05 05
Q. 6	(a) (b) (c)	Write in detail about antidiarrhoeal agent? Write a note on antiemetics. Write in short about Laxatives.	06 05 05
Q.7	(a) (b) (c)	Define Medicinal chemistry and Discuss development of Medicinal chemistry. Explain in detail about partition coefficient and its importance for crossing the biological membrane. Write in short about IBD.	06 05 05
