Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm - SEMESTER-V • EXAMINATION - SUMMER-2017

Subject Code: 250004 Date: 08/06/2017

Subject Name: PHARMACEUTICAL CHEMISTRY-VI (MEDICINAL)
Time: 10:30 AM to 01:30 PM
Total Marks: 80

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

Q.1	(a)	Enumerate and define physicochemical properties of drug molecules. Explain Ionization and Hydrogen bonding in detail.	06
	(b) (c)	Explain in detail about Furguson's Principal. Write in detail about biososterism.	05 05
Q.2	(a)	Give structure of following drugs: 1) Omeprazole 2) Salbutamol 3) promethazine 4) Cyproheptadine 5) Ranitidine	06
	(b) (c)	Write a note on respiratory stimulants. Write a detail note on Antitussive agents.	05 05
Q.3	(a)	Define expectorants, mucolytics and decongestants. Explain expectorants in detail	06
	(b) (c)	Write a note on antiemetic agents. Describe biosynthesis of prostaglandins in detail.	05 05
Q.4	(a) (b) (c)	Give the synthesis and reaction of pyrrole and pyridine. Write a note on Diagnostic agents. Give synthesis of following drugs 1) Omeprazole 2) diphenhydramine	06 05 05
Q.5	(a) (b) (c)	Justify following sentences.1. Pyridine has higher basicity than pyrrole.2. Thiophene is more aromatic than furan and pyrrole.3. Pyrrole gives electrophilic aromatic substitution at second and fifth position. Classify antisecretory agents in detail.Write a note on Prokinetic agents	06 05 05
Q. 6	(a)	Explain the following with reaction mechanism (1) Hantch synthesis (2) Fischer synthesis	06
	(b) (c)	Describe geometric and optical isomers in detail. Write in detail about antidiarrhoeal agent?	05 05
Q.7	(a)	What are autocoids? Classify classical antihistamine with structure and add a note on histamine receptors	06
	(b)	Explain about laxatives in detail Write a note on antacids	05 05
