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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER - 5 EXAMINATION - WINTER -2019

Subject Code: 2250004 Date: 22-11-2019

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)	Explain effect of ionization and partition coefficient on biological activity of drug molecule.	
	(b) (c)	Define diagnostic agent. Write a note on Radiological Contrast Media. Define medicinal chemistry. Write a note on history of medicinal chemistry.	05 05
Q.2	(a) (b) (c)	Define asthma. Describe antiasthmatic agents in detail. Explain bioisosterism in detail with examples. Give synthesis, uses and IUPAC name of Ranitidine and Cetrizine.	
Q.3	(a) (b) (c)	Write note on: (1) Complexation (2) Hydrogen bonding Write detail note on proton pump inhibitors. Define autocoid. Explain biosynthesis of eicosanoids.	06 05 05
Q.4	(a) (b) (c)	Write synthesis of (1) Dicyclomine (2) Salbutamol (3) Omeprazole Describe SAR of β -phenylethanolamine of sympathomimetic agents. Define neuromuscular blocker. Explain SAR of muscarinic antagonist.	06 05 05
Q.5	(a) (b) (c)	Explain following terms with examples: (1) Expectorant (2) Antidiarrheal agent (3) Mucolytic Define nasal decongestant. Write note on antitussive agents. Write detail note on ganglion blockers.	06 05 05
Q. 6	(a) (b) (c)	Explain following terms with examples: (1) Prokinetic (2) Antiemetic (3) Antispasmodic Define and classify antacid and laxative. Define and classify sympatholytic agent.	06 05 05
Q.7	(a)	Give synthesis of followings: (1) Chlorpheniramine (2) Promethazine (3) Atenolol	06
	(b)	What are eicosanoids? Differentiate H ₁ and H ₂ antagonist. Answer the followings: (1) Chemistry of histamine (2) Drug action mediated by eicosanoids	05 05
