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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 5 EXAMINATION - SUMMER -2019 Date: 03-06-2019 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. 0.1 (a) Discuss the following physicochemical parameters in relation to biological 06 activity Protein binding (ii) Solubility (i) **(b)** Write briefly about Bioisosterism. 05 Explain how optical isomerism affects drug action. (c) 05 0.2 Define expectorants, Antitussives and respiratory stimulants with examples. 06 (a) **(b)** Explain antiasthmatics in detail. 05 Write short notes on Prokinetics. (c) 05 Q.3 Discuss Antisecretary agents and proton pump inhibitors. 06 (a) **(b)** Give IUPAC name and synthesis of the following drugs: 05 Ranitidine Omeprazole (ii) Explain the followings with examples & 05 (c) Antispasmodics (ii) Drugs for IBS (i) Write IUPAC name and synthetic routes of the following drugs: 0.4 (a) 06 Chorcyclizine (ii) Promethazine Cyproheptadine (iii) What are H₁ receptor antagonists. Classify them with examples. 05 **(b)** What are eicosanoids? Write briefly about biosynthesis of Prostaglandins. 05 (c) **Q.5** (a) Write short notes on Radiopharmaceuticals as diagnostic agents. 06 Write ideal properties of Antacids. **(b)** 05 Write in detail about Antidiarrheal agents. (c) 05 Write SAR of muscarinic antagonists. Q. 6 (a) 06 Explain Neuromuscular blocking agents. **(b)** 05 Write short notes on (c) 05 β- blockers (ii) Hydrogen bonding and drug action (i) **Q.7** Write IUPAC name and synthesis of 06 (a) Propranolol Adrenaline (i) (ii) Diatrizoic acid (ii) Give SAR of Parasympathomimetics. 05 **(b)**

Write short notes on antiemetics.

(c)