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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER-V- (NEW SYLLABUS) EXAMINATION – SUMMER-2015 Subject Code: 2250004 Date: 04/05/2015

Subject Name: Pharmaceutical Chemistry VII (Medicinal Chemistry I)

Time:2:30 pm to 5:30 pm Total Marks: 80

Instructions:

(c)

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- **Q.1** Write a note on Partition coefficient and Ionization that affect biological **06** (a) activity. What is Medicinal Chemistry? Give importance of Medicinal chemistry in drug **(b)** 05 discovery. Write a short note on Bioisosterism. 05 (c) **Q.2** (a) How Isomerism affect the biological activity. 06 What is asthma? Explain antiasthmatics in detail. 05 **(b)** Write a short note on Expectoranats and Antitussives. (c) 05 **Q.3** Discuss SAR of antihistamines. (a) 06 Explain eicosanoids approved for human clinical use. 05 **(b) (c)** Write a short note on H₂-receptor antagonist 05 **Q.4** (a) Write a note on Diagnostic agents. 06 Give SAR of cholineesters (Parasympathomimetics). **(b)** 05 Write a short note on Neuromuscular Junction Blockers. (c) 05 0.5 Give classification of Parasympatholytics with suitable examples. 06 (a) Write IUPAC name and synthesis of Cyproheptadine and Chlorpheniramine. **(b)** 05 Write a short note on Protom pump inhibitors. 05 (c) **O.** 6 Give SAR of Beta-blockers. **06** (a) **(b)** Write a note on Prokinetics and laxatives. 05 Give IUPAC name and synthesis of Dicyclomine HCl and Atenolol. 05 (c) **Q.7** Give classification of Sympathomimetics with suitable examples. 06 (a) Write IUPAC name and synthesis of Omeprazole and Ranitidine. **(b)** 05

Write Neurochemistry of Acetylcholine.

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