Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – V • EXAMINATION – WINTER – 2015

Subject Code: 2250004 Date: 17/12/2015

Subject Name: Pharmaceutical Chemistry-VI (Medicinal Chemistry-I)
Time: 10.30 AM to 1.30 PM
Total Marks: 80

Instructions:

Q.7

(a)

(b)

(c)

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

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Q.1	(a) (b) (c)	What are Sympathomimetic Agents? Classify them with examples. Give SAR of Muscarinic Antagonists. Write synthesis of Salbutamol and Atenolol.	06 05 05
Q.2	(a) (b) (c) (d)	Write a short note on following: Bioisosterism Expectorants Radiological Contrast Media Antispasmodics	16
Q.3	(a)	Explain the following terms with example. (i) Laxatives (ii) Prokinetics (iii) Anti-emetics	06
	(b)	What are Physiological properties? Explain Partition coefficient and Protein binding in detail.	05
	(c)	What are Isomers? Draw the structure of one drug each having Optical isomerism and Geometrical isomerism.	05
Q.4	(a) (b) (c)	What is Asthma? Explain Anti-asthmatic drugs in detail. Give SAR of H ₂ -Antagonists. Write synthesis of Cetrizine and Ephedrine.	06 05 05
Q.5	(a)	Explain the following term with examples. (i) Antacids (ii) Anti-secretary agents (iii) Redox potential	06
	(b)	Explain Irritable Bowel Syndrome. Give the details of drugs used in the treatment of it.	05
	(c)	Write synthesis of Promethazine and Ranitidine.	05
Q. 6	(a) (b) (c) (d)	Write a short note on following: Eicosanoids Sympatholytic Agents H ₁ -Antagonists Neuromuscular Blocking Agents	16

What are Parasympathomimetic Agents? Classify them with examples.

Explain the Proton Pump Inhibitors in detail.

Write synthesis of Diatrizoic acid and Omeprazole.

06

05

05