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Seat No.:

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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 5- EXAMINATION – WINTER - 2018

Subject Code:2250004

Time:10:30 AM TO 01:30 PM

Date: 29/11/2018 Subject Name: Pharmaceutical Chemistry - VII (Medicinal Chemistry - I) **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)	Enlist various physicochemical parameters that affect biological activity of drugs. Explain the effect of protein binding and hydrogen bonding on action of drugs	06
	(b) (c)	Write short notes on history and development of medicinal chemistry. Classify and explain bio isosterism with suitable examples.	05 05
Q.2	(a) (b) (c)	What is asthama? Classify antiasthamatics with suitable examples and structure. Write a short note on Mucolytics & Decongestants. Explain development of H2- antagonists in detail.	06 05 05
Q.3	(a) (b) (c)	Give any three structure of Proton pump inhibitors & explain mode of action of omeprazole in detail. Write a short note on Pro kinetic agents & anti secretary agents. Classify & explain anti emetic agents in detail.	06 05 05
Q.4	(a) (b) (c)	Explain chemistry, biosynthesis, storage & release of Histamine. Classify anti histaminic agents with suitable examples & structures. Write a chemical name & synthesis of diphenhydramine & chlorpheniramine.	06 05 05
Q.5	(a) (b) (c)	What is eicosanoids? Explain biosynthesis & drug action mediated by eicosanoids. Write a short note on diagnostic agents. Write a chemical name & synthesis of diphenoxylate & ranitidine.	06 05 05
Q. 6	(a) (b) (c)	Classify acetylcholine mimetics with structures & explain mechanism of acetyl choline esterase hydrolysis. Explain SAR activities of parasympathomimetic agents. Write a chemical name & synthesis of dicyclomine & propranolol.	06 05 05
Q.7	(a) (b) (c)	Classify sympatholytic agents with structure & explain non selective ß blockers. Explain biosynthesis, storage & release of norepinephrin, epinephrine& dopamine. Explain SAR activities of Phenylethanolamine adrenergic agonists.	06 05 05