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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 5 EXAMINATION - SUMMER -2020

Subject Code: 2250004 Date:28-10-2020 Subject Name: Pharmaceutical Chemistry – VII (Medicinal Chemistry - I) Time: 2:30 PM TO 5:30 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)	List out various physicochemical parameters. How hydrogen bonding and partition coefficient affects biological activity of drug.	06
	(b) (c)	Write a detailed note on bioisosterism with suitable examples. State and explain Ferguson principle.	05 05
Q.2	(a)	What is AChEIs? Describe mechanism of irreversible AChEIs with aging process.	06
	(b) (c)	Explain neuro muscular blocking agents in detail. Give SAR of phenyl ethanolamine class of drugs.	05 05
Q.3	(a)	Explain the following terms with suitable examples: 1. Mucolytics 2. IBS 3. Antacids	06
	(b)	What is prokinetic agent? Explain it in detail with examples and mechanism of action.	05
	(c)	Write a note on following: 1. Anti-emetics 2. Expectorants	05
Q.4	(a)	What is peptic ulcer? Give a brief note on H ₂ -antagonists.	06
	(b)	Give classification of H ₁ -antagonists.	05
	(c)	Write a note on laxatives and anti-tussive agents.	05
Q.5	(a)	What are anti-asthmatics? Classify it with examples and give its mechanism of action.	06
	(b)	Describe proton pump inhibitors with mechanism of action.	05
	(c)	Write synthetic procedure and uses of following: 1. Diatriazoic acid 2. Omeprazole	05
Q. 6	(a)	What are eicosanoids? Describe its biosynthesis.	06
	(b)	Write a note on eicosanoids approved for human clinical use.	05
	(c)	Give synthesis and uses of following: 1. Cetrizine 2. Ranitidine	05
Q.7	(a)	What are diagnostic agents? Give a detail note on radiopharmaceuticals.	06
	(b)	Give SAR of cholinomimetics and synthesis of diphenhydramine.	05
	(c)	What is medicinal chemistry? Write a note on history of medicinal chemistry.	05
