Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. – SEMESTER-IV • EXAMINATION – WINTER -2022

Subject Code:BP402TP Date:26/12/2022

Subject Name: Medicinal Chemistry-I

Time: 02:30PM TO 05:30PM 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) (b) (c)	Explain Introduction, History and Development of Medicinal Chemistry. Write a note on bioisosterism. Explain factors affecting drug metabolism including stereo chemical aspects.	06 05 05
Q.2	(a) (b) (c)	Explain biosynthesis and catabolism of catecholamine. Give stracture activity relationship of sympathomimetic agents. Write a note on Phase-I reactions in drug metabolism	06 05 05
Q.3	(a) (b) (c)	Explain classification of Sympathomimetic agents . Explain stracture activity relationship studies of Morphine and related drugs. Give synthesis of Epinephrine and Salbutamol	06 05 05
Q.4	(a) (b) (c)	Define adrenergic blockers. Explain SAR of beta (β) -blockers. Write a note on narcotic antagonist Write a note on solanaceous alkaloids and analogues.	06 05 05
Q.5	(a) (b) (c)	Explain classification of Parasympathomimetic agents. Explain stracture activity relationship of cholinolytic agents. Give Synthesis of Neostigmine and Carbachol.	06 05 05
Q. 6	(a) (b) (c)	Classify Antipsychotics giving suitable examples. Explain classification of Anticonvulsant drugs. Write a note on non-steroidal anti-inflammatory drugs (NSAIDS).	06 05 05
Q.7	(a) (b)	Difference between sedative and hypnotics drugs. Explain SAR of benzodiazepine. Give a synthesis of barbital and Diazepam.	06 05
	(c)	Expain SAR of Phenothiazines with drug examples.	05
