

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. - SEMESTER-IV • EXAMINATION – SUMMER -2023

Subject Code:BP402TP**Date: 15/07/2023****Subject Name: Medicinal Chemistry I****Time:10:30AM TO 01:30PM****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) Explain Factors affecting drug metabolism.	06
	(b) Write a note on CYP450.	05
	(c) Give Application of Bioisosterism.	05
Q.2	(a) Explain Biosynthesis and catabolism of catecholamine.	06
	(b) Give SAR of Sympathomimetic Agents.	05
	(c) Write a note on Beta adrenergic blockers.	05
Q.3	(a) Give chemical classification of Antipsychotics and discuss the SAR of Phenothiazine.	06
	(b) Write a Synthesis of Salbutamol and Phenylephrin.	05
	(c) Define Cholinergic blocking agents. Give SAR of cholinolytic agents.	05
Q.4	(a) Explain classification of Para sympathomimetics agents.	06
	(b) Write a note on Anti-inflammatory agents.	05
	(c) Give History and Development of Medicinal chemistry.	05
Q.5	(a) Define Anticonvulsants. Give SAR of Anticonvulsants.	06
	(b) Write a note on Conjugation reactions.	05
	(c) Write a Synthesis of Phenytoin and Ibuprofen.	05
Q. 6	(a) Classify barbiturates with examples. Give SAR of barbiturates.	06
	(b) Write a note on NSAIDS.	05
	(c) Define Sedative and Hypnotic drugs. Give SAR of benzodiazepine.	05
Q.7	(a) Classify Morphine and related drugs. Give SAR of Morphine analogues.	06
	(b) Give brief note on general anesthetics.	05
	(c) Write a Synthesis of Mefenamic acid and Methadone hydrochloride.	05
