

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

Subject Code: Medicinal Chemistry II**Date: 26/12/2022****Subject Name: BP501TT****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) Give synthesis and uses of (i) Diphenhydramine (ii) Methotrexate	06
	(b) Write a short note on proton pump inhibitors	05
	(c) Classify alkylating agents with structures	05
Q.2	(a) Write a brief note on H ₂ -antagonists. Give synthesis of cimetidine	06
	(b) Write a short note on histamine receptors	05
	(c) Give brief account on ACE inhibitors	05
Q.3	(a) Give structure and uses of (i) Mannitol (ii) Diltiazem (ii) Nifedipine	06
	(b) Write a short note on drugs used in Angina	05
	(c) Write a note on Loop diuretics. Give synthesis of Furosemide	05
Q.4	(a) Give synthesis of (i) Methyldopate hydrochloride (ii) Isosorbide dinitrite	06
	(b) Classify Anti-arrhythmic Drugs with one structure from each class	05
	(c) Write a short note on statins	05
Q.5	(a) Write a short note on Anticoagulants. Give synthesis of Warfarin	06
	(b) What do you mean by Congestive Heart Failure? Give brief account on digitalis glycosides	05
	(c) Describe nomenclature and stereochemistry of steroids	05
Q.6	(a) Give structure and uses of (i) Methimazole (ii) Sildenafil (iii) Diethyl stilbestrol	06
	(b) Write a short note on Oral contraceptives	05
	(c) Explain the terms with example (i) Glucosidase inhibitors (ii) Glucocorticoids	05
Q.7	(a) Describe the SAR of Local anesthetics	06
	(b) Give synthesis and use of (i) Procaine (ii) Tolbutamide	05
	(c) Write a brief note on Thiazolidinediones	05
