

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph.- SEMESTER- VIII • EXAMINATION – SUMMER -2022

Subject Code: 2280003**Date: 04/06/2022****Subject Name: Pharmaceutical Chemistry – X (Medicinal Chemistry - III)****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) Classify Antidiabetics. Give synthesis of Isosorbidedinitrate.	06
	(b) Give synthesis of Clofibrate and Pioglitazone	05
	(c) What are immunomodulators? Discuss about each in detail.	05
Q.2	(a) Discuss SAR of Cardiac Glycoside.	06
	(b) Give SAR of HMG Co-A reductase inhibitors. Give synthesis of Lignocaine.	05
	(c) Give synthesis of Methimazole and Carbimazole.	05
Q.3	(a) Discuss in detail about nomenclature and stereochemistry of steroids.	06
	(b) Give synthetic method for acetazolamide and captopril.	05
	(c) Discuss SAR of progestins and androgens.	05
Q.4	(a) Write a note on antiobesity drugs and antithyroid drugs.	06
	(b) Give synthesis of Furosemide and Ethacrinic acid.	05
	(c) Give SAR of ACE Inhibitors.	05
Q.5	(a) Write a note on Antiarrhythmic Agents.	06
	(b) Give synthesis of Nifedipine and Amlodipine.	05
	(c) What are plasma expanders? Provide their chemistry.	05
Q. 6	(a) Define and classify Diuretic Agents. Give the structural formula of any three drugs belonging to different class.	06
	(b) Give synthesis of Dobutamine and warfarin.	05
	(c) Write short note on Coagulants and Anti- Coagulants	05
Q.7	(a) Define and classify Antihyperlipidemic agents. Illustrate your answer with specific examples	06
	(b) Give synthesis of Glipizide and Metformin.	05
	(c) Discuss SAR of Dihydropyridnes.	05
