Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm SEMESTER-VIII • EXAMINATION – SUMMER-2017

Subject Code: 2280003 Date: 02/05/2017

Subject Name: Pharmaceutical Chemistry-X (Medicinal Chemistry-III)

Time: 10:30 AM to 01:30 PM Total Marks: 80

Instructions:

1. Attempt any five question	ns.
------------------------------	-----

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Classify antihypertensive drugs based on their mechanism of action. Give structure and IUPAC name of any one drug of each class.	06
	(b)	Discuss SAR of Cardiac Glycoside.	05
	(c)	Give synthetic route for amlodipine and flecainide	05
Q.2	(a)	What are antidiabetic drugs? Clssify them with recent advances in it.	06
	(b)	Describe SAR of sulfamoyl benzoic acid derivatives.	05
	(c)	Outline synthesis of lignocaine and dobutamine.	05
Q.3	(a)	Classify diuretics with structure and IUPAC name of any one drug of each class.	06
	(b)	Write a note on antiplatelet agents and thrombolytic agents.	05
	(c)	Give detail account on lipid lowering agents. Give synthetic route for	05
	(-)	clofibrate.	
Q.4	(a)	Discuss in detail about nomenclature and stereochemistry of steroids.	06
	(b)	Give SAR of ACE inhibitors. Outline synthesis of hydralazine.	05
	(c)	Give synthetic method for acetazolamide and captopril.	05
Q.5	(a)	Give detail account on various corticosteroids.	06
Ų.S		Discuss SAR of progestins and androgens.	05
	(b)	1 6	05
	(c)	Give synthesis route for metformin and tolbutamide.	US
Q. 6	(a)	What are immunomodulators? Discuss about each in detail.	06
	(b)	Give SAR of HMG CoA reductase inhibitors.	05
	(c)	Outline synthetic route for furosemide and metoprolol.	05
Q.7	(a)	Write a note on antiobesity drugs and antithyroid drugs.	06
•	(b)	Discuss SAR of dihydropyridines.	05
	(c)	Give synthesis of glipizide and hydrochlorthiazide.	05
	(~)	or a primitate or Supremo and management and the second of	95
