

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VIII • EXAMINATION – SUMMER 2013

Subject Code: 280003

Date: 13-05-2013

Subject Name: Pharmaceutical Chemistry - X (Medicinal Chemistry)

Time: 10.30 am - 01.30 pm

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)	Define and classify diuretics with suitable examples. Discuss mode of action of carbonic anhydrase inhibitors.	06
	(b)	Write a note on potassium sparing diuretics.	05
	(c)	Outline the synthesis of furosemide and ethacrynic acid.	05
Q.2	(a)	Enumerate different methods used in QSAR & discuss any one of them.	06
	(b)	Write a note on lead optimization.	05
	(c)	Explain direct and indirect molecular modeling.	05
Q.3	(a)	Define and classify Antihypertensive agents with suitable examples.	06
	(b)	Discuss SAR of cardiac glycoside.	05
	(c)	Write a note on antiplatelet agents. Give the synthesis of hydralazine.	05
Q.4	(a)	Discuss SAR of HMG CoA reductase inhibitors and synthesis of Clofibrate.	06
	(b)	Explain in detail about Antianginal agents.	05
	(c)	Write a short note on Anticoagulants.	05
Q.5	(a)	Define and classify lipid lowering agents. Give the synthesis of dobutamine.	06
	(b)	Discuss SAR of 1,4 dihydropyridines. Give the synthesis of Captopril.	05
	(c)	Write a note on plasma expanders.	05
Q.6	(a)	Explain steric and electronic parameter used in QSAR in detail.	06
	(b)	Write a note on CADD.	05
	(c)	Write a note on antiobese drugs.	05
Q.7	(a)	Define and classify Anti arrhythmic agents and explain mode of action of each class.	06
	(b)	Write a note on thrombolytic agents.	05
	(c)	Write a note on combinatorial chemistry.	05
