Seat No.:	Enrolment No.

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

Subject Code: 280003 Date: 02/05/2017

Subject Name: Pharmaceutical Chemistry-x (*Medicinal Chemistry*)

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

Instructions:

1. Attempt any five question

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

Q.1	(a)	Define and classify Antihypertensive agents with suitable examples.	06
	(b) (c)	Outline SAR activity of Thiazide diuretics. Out line the synthesis of furosemide and acetazolamide.	05 05
((a)	Enumerate different methods used in QSAR & discuss any one of them.	06
	(b)	Write a note on methods of lead discovery	05
	(c)	Explain direct and indirect molecular modeling.	05
((a)	Define and classify diuretics with suitable examples. Discuss mode of action of carbonic anhydrase inhibitors.	06
	(b)	Discuss SAR of cardiac glycosides and write synthesis of dobutamine.	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 note on plasma expanders.	05
((a)	Define and classify lipid lowering agents. Give the synthesis of lignocaine.	06
	(b)	Discuss SAR activity of ACE inhibitors. Give the synthesis of Amlodipine.	05
	(c)	Write a short note on Anticoagulants.	05
Q. 6	(a)	Explain steric and electronic parameter used in QSAR in detail.	06
	(b)	Write a note on combinatorial chemistry.	05
	(c)	Write a note on antiobesity 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 CADD.	05
