

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2014

Subject Code: 280003

Date: 29-11-2014

Subject Name: Pharmaceutical Chemistry X (Medicinal Chemistry)

Time: 02:30 pm - 05:30 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) Discribe Physio-Chemical parameters in details. Write a note on QSAR	06
	(b) Classify diuretics and give synthesis of Hydochlorthiazide.	05
	(c) Give SAR activity of 5-Sulfamoyl benzoic acid derivatives	05
Q.2	(a) Give brief account of β -blockers as potential antihypertensive agents. Give synthesis of atenolol.	06
	(b) Write a note on ACE inhibitors. Give synthesis of captopril.	05
	(c) Write a note on Antiplatelet agents	05
Q.3	(a) Write a note on Antihyperlipidemic agents and give SAR activity of HMG CoA reductase.	06
	(b) Discuss SAR of cardiac glycosides.	05
	(c) Write a short note on Anticoagulants.	05
Q.4	(a) Classify antiarryhythmic agents. Discuss mechanism of action of each class.	06
	(b) Write a note on potassium sparing diuretics.	05
	(c) Write a short note on CADD	05
Q.5	(a) Write a note on Hansch Linear Freee Energy Relationship model.	06
	(b) Write a note on Antiobesity Drugs	05
	(c) Write a note on Combinatorial Chemistry	05
Q. 6	(a) Write a note on methods of lead discovery.	06
	(b) Write a note on thrombolytic agents.	05
	(c) Write a note on organic nitrates.	05
Q.7	(a) Write a note on Molecular Modeling.	06
	(b) Write a note on Antiplatelet agents.	05
	(c) Give synthesis of (a) Lignocaine and (b) Hydralazine	05
