

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm – SEMESTER VIII – • EXAMINATION – WINTER - 2016

Subject Code: 280003**Date: 24/11/2016****Subject Name: Pharmaceutical Chemistry-X (Medical Chemistry)****Time: 02.30 PM to 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) Classify Antihypertensive agents. Give synthesis of Hydralazine.	06
	(b) Give SAR of Cardiac Glycosides.	05
	(c) Give synthesis of Nifedipine and Lignocaine.	05
Q.2	(a) Explain Free Wilson Analysis, its advantages and disadvantages.	06
	(b) Give SAR of Thiazide diuretics.	05
	(c) Write a note on heparin as anticoagulant.	05
Q.3	(a) Classify Anti-hyper-lipidemics agents giving its mechanism, of action.	06
	(b) Write a note on Thrombolytic agents.	05
	(c) Give synthesis of Warfarin and Captopril.	05
Q.4	(a) Classify Diuretics with its structure. Write mechanism of action of potassium sparing diuretics.	06
	(b) Write in brief about Computer Assisted Drug Design.	05
	(c) Give synthesis of Furosemide and Ethacrinic acid.	05
Q.5	(a) Write a note on Hansch Linear Free Energy relationship (LFER) model in QSAR studies.	06
	(b) Write a note on Antianginal agents.	05
	(c) Write a note on HTS (High Throughput Screening)	05
Q. 6	(a) Write short notes on sodium channel blockers as antiarrhythmic agents.	06
	(b) Write a note on lead optimization.	05
	(c) Write a note on Antiobesity drugs.	05
Q.7	(a) Give SAR of HMGCOA – reductase inhibitors. Synthesis of Clofibrate.	06
	(b) Write a note on Molecular Modeling.	05
	(c) Write a short notes on Plasma expanders.	05
