GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM SEMESTER– VIII • EXAMINATION – SUMMER-2016			
Subject Code: 280003 Date: 02/05/20			
Subject Name: Pharmaceutical Chemistry-X (Medicinal Chemistry) Time: 10:30 AM to 1:30 PM Total M Instructions:			otal Marks: 80
1. Attempt any five questions.			
		suitable assumptions wherever necessary. s to the right indicate full marks.	
Q.1	(a) (b)	Write a note on Plasma expanders and Antiobesity drugs. Define and classify Antianginal agents with the synthesis of Isosobide dinitrate.	06 05
	(c)	Discuss various methods for optimization of lead compound.	05
Q.2	(a)	Define Molecular Modeling and write a note on application of Computer Aided Drug Design technique.	06
	<b>(b)</b>	Give the History and classification of Cardiotonic agents with synthesis of Dobutamine.	05
	(c)	Outline SAR of 3-Hydroxy 3-Methyl Glutaryl CoA reductase inhibitors	05
Q.3	<b>(a)</b>	Define QSAR and write a note on Hansch Linear Free Energy Relationship model.	06
	(b) (c)	Give the synthesis of Lignocaine and Flecainide. Discuss the various factors which are affecting on bood coagul and write a note on Warfarin.	05 lation 05
Q.4	(a)	Define antihypertensive agents with its classification and write note on calcium channel blockers.	ea <b>06</b>
	(b)	Discuss the role of combinatorial chemistry in new drug discov	•
	( <b>c</b> )	Outline SAR activity of 5-Sulfamoyl benzoic acid derivatives.	05
Q.5	(a)	What do you mean by Diuretics? Classify and give the synthes (i) Acetazolamide (ii) Dihydro flumethiazide	
	(b) (c)	Write a note on Thrombolytic agents. Give the mechanism of action and synthesis of Captopril.	05 05
	(t)	Give the meenanism of action and synthesis of Captopin.	05
Q. 6	(a)	What is Free Wilson Mathematical Model? Explain it.	06
	(b)	Give the SAR of Thiazide Duretics.	05
	( <b>c</b> )	Discuss the role of Antiplatelet agents.	05
Q.7	(a)	Outline SAR activity of Dihydropyridines and give the synthes Nifedipine.	
	<b>(b)</b>	Synthesis of (i) Ethacrinic acid (ii) Furosemide.	05
	( <b>c</b> )	Write a note on drugs that block sodium channels of myocardia act as Antiarrhythmic agents.	um to 05