Enrolment No.____ Seat No.: _____

CHIARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VIII • EXAMINATION – SUMMER • 2014			
	•	ect Code: 280003 Date: 23-05-2014	
	_	ect Name: Pharmaceutical Chemistry X (Medicinal Chemistry)	
		: 10:30 am - 01:30 pm Total Marks: 80	
	HISTI	1. Attempt any five questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	
Q.1	(a)	What are cardiotonic agents? Give the SAR of cardiac glycosides.	06
	(b)	Classify Antiarrhythmic agents with one structure in each class. Write synthesis	05
	(a)	of Lignocaine.	05
	(c)	Write short notes on sodium channel blockers as antiarrhythmic agents.	US
Q.2	(a)	Give SAR of HMG-CoA reductase inhibitors.	06
	(b)	Write short notes on antianginal agents.	05
	(c)	Give the synthesis of following drugs (Any two):	05
		i. Captoprilii. Atenolol	
		iii. Clofibrate	
Q.3	(a)	Write Mechanism of action, uses, side effect and SAR of ACE inhibitors.	06
	(a) (b)	Classify antihypertensive agents with one structure in each class.	05
	(c)	Give the synthesis of following drugs (Any two):	05
		i. Nifedipine	
		ii. Dobutamine	
		iii. Hydrochlorthiazide	
Q.4	(a)	Classify diuretics with one structure in each class. Write mechanism of action,	06
	(1.)	uses and side effect of spironolactone.	0.
	(b) (c)	Give SAR of thiazide diuretics. Write short notes on heparin as anticoagulant.	05 05
	(C)	write short notes on neparm as anticoagulant.	05
Q.5	(a)	Give SAR of 1,4-Dihydropyridines antihypertensive agents.	06
	(b)	Write short notes on antiplatelet agents.	05
	(c)	Give brief notes on thrombolytic agents.	05
Q. 6	(a)	Write short notes on Hansch Linear Free Energy Relationship (LFER) model in	06
	, ,	QSAR study.	
	(b)	Give detail notes on combinatorial synthesis.	05
	(c)	Write short notes on plasma expander and antiobesity drugs	05
Q. 7	(a)	What is Molecular Modeling (MM)? Explain the same in detail.	06
	(b)	Write detail notes on lead optimization.	05
	(c)	Write brief notes on Lipophilic parameters in drug design.	05

05