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Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – VIII • EXAMINATION – WINTER – 2015

Subject Code: 280003 Date: 09/12/2015

Subject Name: Pharmaceutical Chemistry X (Medicinal Chemistry)

Time: 2.30 PM to 5.30 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) (b) (c)	Discuss SAR of cardiac glycosides and write synthesis of dobutamine. Define and classify antihypertensive agents with suitable examples and structure in each category. Write a note on antianginal agents.	06 05 05
0.2			
Q.2	(a) (b) (c)	Define and classify diuretics with suitable examples. Discuss potassium sparing diuretics. Write a note on thiazide diuretics including its SAR. Write down synthesis of furosemide and acetazolamide.	06 05 05
Q.3	(a) (b) (c)	Enumerate different methods used in QSAR & discuss any one of them. Write a brief note on combinatorial synthesis. Discuss about lead optimization.	06 05 05
Q.4	(a)	Classify antihyperlipidemic agents with suitable examples and structure in each category.	06
	(b) (c)	Discuss SAR of HMG coA reductase inhibitors and write the synthesis of clofibrate. Discuss various antiplatelet agents in detail.	05
Q.5	(a) (b) (c)	Write a note on antiobesity agents. Discuss SAR of angiotensin convertase inhibitors. Write down synthesis of nifedipine and lignocaine.	06 05 05
Q. 6	(a) (b) (c)	Discuss various QSAR parameters in detail. Write a note on calcium channel blockers as antihypertensive agent. Write synthesis of isosorbide dinitrate and captopril.	06 05 05
Q.7	(a) (b) (c)	Write a note on CADD. Write a note on thrombolytic agents. Write synthesis of atenolol and warfarin.	06 05 05
