GUJARAT TECHNOLOGICAL UNIVERSITYB.Pharm SEMESTER–VIII • EXAMINATION – SUMMER-2016Subject Code: 2280003Date: 02/05/2016Subject Name: Pharmaceutical Chemistry-X (Medicinal Chemistry-III)Time: 10:30 AM to 1:30 PMTotal Marks: 80Instructions:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	What are cardiotonics ? Classify cardiotonics with examples. Give SAR of Cardiac glycosides. Write short notes on Thrombolytic agents.	06 05
	(c)	Give SAR of ACE inhibitors.	05
Q.2	(a)	What is cardiac arrhythmia ? Give mechanism of action of anti-arrhythmic drugs.	06
	(b) (c)	Write IUPAC name and synthesis of any two drugs :(i) Nifedipine(ii) Metoprolol(iii) HydralazineWrite short note on Plasma expanders.	05 05
Q.3	(c) (a) (b) (c)	What are the causes of hypertension ? Write a note on $\beta$ -blockers. Write SAR of estrogens. Write short note on immunomodulators.	06 05 05
Q.4	(a) (b)	Why diuretics are used ? Classify diuretics with examples. Give synthesis of Acetazolamide. Write short notes on coagulants and anticoagulants.	06 05
	(c)	Give IUPAC name and synthesis of Dobutamine and Flecainide.	05
Q.5	(a)	What is Diabetes ? Classify antidiabetics with examples and give their mechanism of action.	06
	(b) (c)	What are adrenocorticoids ? Give their physiological role. Write short notes on stereochemistry of steroids.	05 05
Q. 6	(a) (b) (c)	<ul> <li>What are androgens ? Give their SAR and brief idea about anabolic agents.</li> <li>Write a note on antithyroid drugs.</li> <li>Give synthesis of any two of the following drugs :</li> <li>(i) Metformin (ii) Glipizide (iii) Carbimazole</li> </ul>	06 05 05
Q.7	(a)	What are antihyperlipidemic agents ? Write SAR of HMG CoA reductase inhibitors.	06
	(b) (c)	Write a note on potassium sparing diuretics. What is obesity ? write a note on antiobesity drugs.	05 05

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