Seat No.:	Enrolment No
-----------	--------------

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION - SUMMER 2015

Su	bject	Code: 143601 Date: 01/06/2015	5
Su	bject	Name: Medicinal Chemistry and Physio-pharmacology	
		0.30am-01.00pm Total Marks: 70)
Ins	truction		
	2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Discuss pharmacology of local Anesthetics in detail. Draw the diagram of lower respiratory system and label its different parts with	07 07
	(~)	function.	0.
Q.2	(a)	i. Define the term: anticoagulants and write the synthesis of warfarin.ii. Discuss the role of Insulin.	04 03
	(b)	Discuss mode of action of Sedatives and hypnotics. OR	07
Q.3	(b) (a)	What are Diuretics? Explain site of action of Diuretics with diagram. What is drug metabolism? Discuss Phase-1 transformations.	07 07
	(b)	Draw the diagram of urinary system and explain functions of ureters and bladder. OR	07
Q.3	(a) (b)	Explain mode of action of Barbituarates with examples.i. Describe in detail about antithrombolytic and fibrinolytic agents.ii. Define the term: purgatives	07 04 03
Q.4	(a)	Give classification of General Anesthetics with examples in each class.	07
	(b)	Outline the synthesis of the following drugs & mention their uses: (any two) (i) Tolbutamide (ii) Atenolol (iii) phenformin	07
		OR	
Q.4	(a)	Discuss the mode of action of sulfonylureas derivatives used as oral hypo glycaemic agents.	07
	(b)	Define and classify sedatives and hypnotics. Give the synthesis of any one barbiturate derivative.	07
Q.5	(a)	Discuss mode of action of antihistamines.	07
	(b)	i. Discuss the various routes of drug administration.ii. Define the terms: Aneasthetist and AneasthesiaOR	04 03
Q.5	(a) (b)	Discuss the SAR of Thiazide derivatives used as diuretics. Outline the synthesis of the following drugs & mention their uses: (any two)	07 07
		(i) Antazoline (ii) Ethacrynic acid (iii) Verapamil	
