Seat No.: Enrolment No.	Seat No.:	Enrolment No.
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Subject Code: 143601

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - WINTER • 2014

Date: 31-12-2014

	-	Name: Medicinal Chemistry and Physiopharmacology 2:30 pm - 05:00 pm Total Marks: 70	
Inst	ructio 1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	What is drug metabolism? Discuss Phase-1 transformations. Draw the diagram of upper respiratory system and label its different parts with function.	07 07
Q.2	(a)	i. Describe in detail about Antithrombolytic and Fibrinolytic agents.ii. Define the term: Allergy	05 02
	(b)	Discuss mode of action of Sedatives and hypnotics. OR	07
	(b)	What are Diuretics? Give the classification of it with one example in each class.	07
Q.3	(a)	Give the classification of antihistamines with one example of each class.	07
	(b)	 i. Discuss the various routes of drug administration. ii. Define the terms: Aneasthetist and Aneasthesia OR 	07
Q.3	(a)	Outline the synthesis of the following drugs & mention their uses: (Any two) i. TolButamide ii. Benadryl iii. Chlorothiazide	07
	(b)	Give classification of General Aneasthetics. Write the structure, chemical name, synthesis and uses of two drugs from each class.	07
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.4	(a)	 i. How do you classify the oral hypoglycaemic agents? Write the structure, names and uses of at least two compounds. 	04
	(b)	 ii. Discuss the mode of action of Carbonic Anhydrase Inhibitors as diuretics. Outline the synthesis of the following drugs & mention their uses: (Any two) (i) Chlorpropamide 	03 07
		(ii) Benzocaine (iii) Aspirin	
Q.5	(a)	Discuss pharmacology of local Anesthetics in detail.	07
	(b)	i. Give classification of oral hypoglycaemic agents with examples.	05
		ii. What is Hematinics? Give any two examples.	02
Q.5	(a)	OR Explain mode of action of Barbituarates with examples.	07
V. 3	(a) (b)	i. Define the term: anticoagulants and write the synthesis of one of them.	04
	\ - /	ii. Discuss the role of Insulin.	03
