Seat No.: __

(c)

GUJARAT TECHNOLOGICAL UNIVERSITY Pharm - SEMESTER - IV • EXAMINATION - WINTER • 201

D. Pharm. – Selviester – IV • Examination – Winter • 2015				
Subje	ct Co	de: 240005 Date: 11-01-2	Date: 11-01-2016	
Time: Instruc	me: Pharmacology-I 0 pm - 05:30 pm Total Marks tempt any five questions.	Total Marks: 80		
	2. Ma	ake suitable assumptions wherever necessary. gures to the right indicate full marks.		
Q.1	(a) (b)	Write a note on G-protein coupled receptors. Discuss the advantages and disadvantages of intravenous route of drug administration.	06 05	
	(c)	Write a short note on phases of clinical trials.	05	
Q.2	(a) (b) (c)	Write a note on sources of drugs. Differentiate competitive and non-competitive antagonism. Differentiate sympathetic and parasympathetic nervous system.	06 05 05	
Q.3	(a) (b) (c)	Describe the mechanism of action of local anesthetics. Differentiate Autonomic and Somatic nervous system. Write a short note on Structure activity relationship.	06 05 05	
Q.4	(a)	Define biotransformation. Describe enzyme induction and enzyme inhibition with examples.	06	
	(b) (c)	Write a short note on pharmacokinetic drug interactions. Write a short note on acute toxicity studies.	05 05	
Q.5	(a) (b) (c)	Write a note on Adverse drug reactions. Classify beta blockers. Write a short note on Atenolol. Describe methods for prolonging duration of action of drug.	06 05 05	
Q. 6	(a) (b) (c)	Describe synthesis, release and metabolism of Adrenaline. Define receptors, classify cholinergic receptors, describe their distribution and give examples of their agonists and antagonists. Write a short note on triple response of histamine.	06 05	
Q.7	(a) (b)	Classify autocoids and discuss the pharmacology of prostaglandins. Classify neuromuscular blocking agents. Write a note on D-tubocuarine.	06 05	

Discuss the factors affecting absorption of drug from gut.

05