Seat No.: _____

Q.7

(a)

(b)

(c)

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

	В.	. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER •	2014	
Subj	ect Co	ode: 240005 Date: 23-05-201	Date: 23-05-2014	
Subj	ect Na	me: Pharmacology-I		
•	Time: 02:30 pm - 05:30 pm Total Marks: 80			
	uctions:	•		
		ttempt any five questions.		
		lake suitable assumptions wherever necessary.		
	3. Fi	gures to the right indicate full marks.		
Q.1	(a)	Enumerate routes of drug administration. Give the merits and	06	
V	(4)	demerits of intravenous route of drug administration.	00	
	(b)	Explain signal transduction mechanism of G-protein coupled	05	
		receptors.		
	(c)	Explain drug tolerance and dependence.	05	
0.4	(-)		1 0	
Q.2	(a)	Give merits of prolongation of drug action. Explain various meth used to prolong the duration of action of drug.	ods 06	
	(b)	Explain drug antagonism. Give difference between competitive a	and 05	
	(0)	non-competitive antagonism with suitable examples.	ind 00	
	(c)	Briefly explain various types of animal toxicity studies.	05	
Q.3	(a)	Explain the following terms (any two):	06	
Ų.S	(a)	I. Plasma protein binding	UU	
		II. Bioavaibility		
		III. First pass metabolism		
	(b)	Define drug and explain different sources of drugs.	05	
	(c)	Enumerate various reactions involved in metabolism. Write a sho	ort 05	
		note on microsomal enzyme induction.		
Q.4	(a)	Explain the following terms:	06	
	· /	I. Teratogenicity		
		II. Structure activity relationship		
	(b)	Write a short note on clinical trials.	05	
	(c)	Write a short note on local anesthetics.	05	
Q.5	(a)	Classify muscarinic and nicotinic receptors with subtypes and	06	
	` /	explain pharmacological action of Acetylcholine.		
	(b)	Give difference between non depolarizing agents and depolarizing	ng 05	
		agents as neuromuscular blockers.		
	(c)	Write a short note on drugs acting on autonomic ganglia.	05	
Q. 6	(a)	Write a short note on neurohumoral transmission.	06	
	(b)	Explain in detail about anticholinesterase poisoning and its	05	
		treatment.		
	(c)	Classify sympathomimetic drugs.	05	

Give the pharmacological actions of histamine. Write a note on prostaglandins. Write pharmacology of angiotensin.

06

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