GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. SEM- IV - EXAMINATION - SUMMER 2017

Subject code: 240005	Date: 06/05/2017
Subject Name: Pharmacology-I	
Time: 02:30 PM to 05:30 PM	Total Marks: 80

Instructions:

	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Write advantages and disadvantages of oral route of drug administration. What is	06
	(h)	first pass effect? Describe factors modifying drug action.	05
	(b)	Write a note on Phases of Clinical Trials.	05 05
	(6)	write a note on r mases of Chinical Trials.	UJ
Q.2	(a)	What is receptor? Explain Receptor Occupation Theory.	06
	(b)	What is Glaucoma? Discuss mechanism of actions, pharmacological effects and	05
	(0)	side effects of pilocarpine. Define	05
	(c)	1. Volume of distribution	UJ
		2. Partial agonist	
		3. Bioavailability	
		4. Drug Dependence	
		5. Potency	
Q.3	(a)	Differentiate between	06
		1. Tachyphylaxis and Tolerance	
		2. Graded response and Quantal response	
	(b)	What is Myasthenia gravis? Discuss indications, pharmacological actions and toxic effects of Neostigmine.	05
	(c)	Classify adrenoceptor antagonists. Explain pharmacological actions and uses of propranolol.	05
Q.4	(a)	Write a note on "Enzyme induction" and "Enzyme inhibition".	06
	(b)	Classify local anaesthetics. Explain mechanism of action, uses and toxicity of lidocaine.	05
	(c)	Explain various types of hypersensitivity reactions.	05
Q.5	(a)	Classify and discuss Adverse Drug Reactions.	06
	(b)	Enlist mechanisms involved in drug absorption. Describe Fick's law of passive diffusion in detail.	05
	(c)	Classify H ₁ receptor antagonist. Write pharmacological characteristics, therapeutic uses and adverse effects of second generation antihistaminics.	05

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Q. 6	(a)	Explain biosynthesis and pharmacological actions of Prostaglandins.	06
	(b)	Explain phases of Biotransformation with suitable examples.	05
	(c)	Classify 5-HT receptors. Discuss pharmacological actions of serotonin.	05
Q. 7	(a)	Explain biosynthesis and pharmacological actions of angiotensin.	06
	(b)	Define therapeutic index (TI). How to calculate TI? Explain limitations of TI.	05
	(c)	Write a note on	05
		1. Substance P	
		2. Neuromuscular blockers	
