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## **GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 4 EXAMINATION - SUMMER -2019**

Subject Code: 240005 Date: 15-05-2019

**Subject Name: Pharmacology - I** 

Time: 10:30 AM TO 01:30 PM Total Marks: 80

**Instructions:** 

**(c)** 

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

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Q.1	(a) (b) (c)	Explain the following terms:  i. Teratogenicity  ii. Structure activity relationship  Write a short note on local anesthetics.  Describe the pharmacological and physiological role of serotonin.	06 05 05
Q.2	(a) (b) (c)	Explain Dose response relationship and its importance. Briefly explain various types of animal toxicity studies. Classify sympathomimetic drugs.	06 05 05
Q.3	(a) (b) (c)	Define biotransformation. Describe enzyme induction and enzyme inhibition with examples.  Explain signal transduction mechanism of G-protein coupled receptors.  Explain in detail about anticholinesterase poisoning and its treatment.	06 05 05
Q.4	<ul><li>(a)</li><li>(b)</li></ul>	Enumerate routes of drug administration. Give the merits and demerits of intravenous route of drug administration.  Explain drug antagonism. Give difference between competitive and non-	06 05
Q.5	(c) (a)	competitive antagonism with suitable examples Write a short note on drugs acting on autonomic ganglia.  Describe in short on the following	05 06
Ų.	(b) (c)	<ul> <li>i. Prostaglandins</li> <li>ii. Histamine</li> <li>Give difference between non depolarizing agents and depolarizing agents as neuromuscular blockers.</li> <li>Explain plasma protein binding of drugs and its clinically significant implications with suitable examples.</li> </ul>	05 05
Q. 6	(a) (b) (c)	Classify muscarinic and nicotinic receptors with subtypes and explain pharmacological action of Acetylcholine.  Define drug and explain different sources of drugs  Write a short note on bioavailability	06 05 05
Q.7	(a) (b)	Write a short note on neurohumoral transmission. Explain drug tolerance and dependence.	06 05

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Write a short note on phases of clinical trials.