

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2015**

**Subject Code: 240005****Date: 11-01-2016****Subject Name: Pharmacology-I****Time: 02:30 pm - 05:30 pm****Total Marks: 80****Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

<b>Q.1</b>	(a) Write a note on G-protein coupled receptors.	<b>06</b>
	(b) Discuss the advantages and disadvantages of intravenous route of drug administration.	<b>05</b>
	(c) Write a short note on phases of clinical trials.	<b>05</b>
<b>Q.2</b>	(a) Write a note on sources of drugs.	<b>06</b>
	(b) Differentiate competitive and non-competitive antagonism.	<b>05</b>
	(c) Differentiate sympathetic and parasympathetic nervous system.	<b>05</b>
<b>Q.3</b>	(a) Describe the mechanism of action of local anesthetics.	<b>06</b>
	(b) Differentiate Autonomic and Somatic nervous system.	<b>05</b>
	(c) Write a short note on Structure activity relationship.	<b>05</b>
<b>Q.4</b>	(a) Define biotransformation. Describe enzyme induction and enzyme inhibition with examples.	<b>06</b>
	(b) Write a short note on pharmacokinetic drug interactions.	<b>05</b>
	(c) Write a short note on acute toxicity studies.	<b>05</b>
<b>Q.5</b>	(a) Write a note on Adverse drug reactions.	<b>06</b>
	(b) Classify beta blockers. Write a short note on Atenolol.	<b>05</b>
	(c) Describe methods for prolonging duration of action of drug.	<b>05</b>
<b>Q.6</b>	(a) Describe synthesis, release and metabolism of Adrenaline.	<b>06</b>
	(b) Define receptors, classify cholinergic receptors, describe their distribution and give examples of their agonists and antagonists.	<b>05</b>
	(c) Write a short note on triple response of histamine.	<b>05</b>
<b>Q.7</b>	(a) Classify autocooids and discuss the pharmacology of prostaglandins.	<b>06</b>
	(b) Classify neuromuscular blocking agents. Write a note on D-tubocuarine.	<b>05</b>
	(c) Discuss the factors affecting absorption of drug from gut.	<b>05</b>

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