

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-IV- EXAMINATION –SUMMER-2016

Subject code: 240005

Date: 03/06/2016

Subject Name: Pharmacology-I

Time: 10:30 AM to 1:30 PM

Total Marks: 80

Instructions:

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

Q.1	(a)	Write short note on enzyme induction and enzyme inhibition.	06
	(b)	Explain the effect of plasma protein binding on drug distribution.	05
	(c)	Write a note on bioavailability and bioequivalence.	05
Q.2	(a)	Describe pharmacology of prostaglandins.	06
	(b)	Define autacoids. Write short note on H ₁ receptor blocker.	05
	(c)	Write short note on local anesthetics.	05
Q.3	(a)	Define prodrug. Explain phase I and II biotransformation of drugs.	06
	(b)	Write phases of clinical trials.	05
	(c)	Write note on idiosyncratic drug reactions.	05
Q.4	(a)	Classify sympatholytics. Write pharmacology of selective β_1 blockers.	06
	(b)	Explain organophosphorous poisoning and its treatment.	05
	(c)	Write pharmacological actions and therapeutic uses of parasympatholytics.	05
Q.5	(a)	Write a note on sympathetic transmission.	06
	(b)	Write a note on neuromuscular blocking agents.	05
	(c)	Classify sympathomimetics. Write pharmacology of selective β receptor agonists.	05
Q. 6	(a)	What is antagonism? Explain different types of antagonism.	06
	(b)	What are the different routes of administration? Give advantages and disadvantages of parenteral route.	05
	(c)	Write a note on theories of drug receptor interaction.	05
Q. 7	(a)	Classify receptor with examples. Write a note on nuclear receptor.	06
	(b)	Write a note on angiotensin.	05
	(c)	Enumerate factors affecting drug absorption and explain effect of pH and ionization on drug absorption.	05
