

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 4- EXAMINATION –WINTER - 2018

Subject Code:240005

Date: 10/12/2018

Subject Name: Pharmacology - I

Time:02:30 PM TO 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.**

Q.1	(a)	Classify parasympathomimetics. Write M/A and therapeutic uses of Ach.	06
	(b)	Explain pharmacokinetic drug- drug interactions with examples.	05
	(c)	Write a note on enzyme induction and enzyme inhibition with examples.	05
Q.2	(a)	Classify beta blockers. Write a pharmacological action and uses of propranolol.	06
	(b)	Differentiate competitive and non-competitive antagonism.	05
	(c)	Explain drug tolerance and dependence.	05
Q.3	(a)	Classify serotonin receptors and describe its pharmacological actions.	06
	(b)	Write merits and demerits of intravenous route.	05
	(c)	Write different phases of clinical trials.	05
Q.4	(a)	Classify alpha-adrenoreceptor antagonist. Describe pharmacology of prazosin.	06
	(b)	Explain various factors modifying drug action.	05
	(c)	Describe mode of action and therapeutic uses of local anaesthetics.	05
Q.5	(a)	Classify antihistamines and give its pharmacological action and therapeutic uses.	06
	(b)	Write a note on apparent volume of distribution.	05
	(c)	Write a short note on acute and sub acute toxicity study.	05
Q. 6	(a)	Classify neuromuscular blockers. Write on M/A and uses of d-tubocurarine.	06
	(b)	Explain bioavailability and its significance.	05
	(c)	Write a note on organophosphorous poisoning.	05
Q.7	(a)	Write in brief the gating and signal transduction mechanisms of G-protein coupled receptors.	06
	(b)	Write a note on prostaglandins.	05
	(c)	Explain the term of biological half life and give its importance.	05
