Seat No.: _____

Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 6 EXAMINATION - SUMMER -2019

Subject Code: 2260004	Date: 14-05-2019
Subject Name: Pharmaceutical Chemistry –	VIII (Medicinal Chemistry - II)
Time: 02:30 PM TO 05:30 PM	Total Marks: 80
Instructions:	
1. Attempt any five questions.	

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

Q.1	(a)	Enlist theories of Dug-Receptor interactions. Describe any three as per your knowledge.	06
	(b) (c)	Discuss on factors affecting Dug-Receptor interactions. Explain microsomal oxidation catalyzed by CYP450 including CYP450 cycle.	05 05
(b)	(a)	Define drug metabolism. What do you mean by phase-I reactions? Enlist phase-I reactions and explain oxidation reaction in detail.	06
	(b) (c)	Discuss factors affecting drug metabolism. Give SAR of phenothiazines.	05 05
Q.3	(a)	Give synthesis and use of: (Any three) i). Phenytoin ii). Thiopental iii). Halothane iv). Chlorpromazine.	06
	(b) (c)	Define general anesthetics. Discuss stages of anesthesia in detail. Define and classify antidepressant agents with at least three drug examples and one structure of each category.	05 05
(b	(a)	Define and classify antiepileptic agents with at least three drug examples and one structure of each category.	06
	(b) (c)	Give SAR of benzodiazepines. Write a short note on Analeptics.	05 05
(1	(a)	Give synthesis and use of: (Any three) i). Paracetamol ii). Aspirin iii). Diclofenac iv). Indomethacin.	06
	(b) (c)	Give synthesis, IUPAC name and use of Imipramine OR Carbamazepine. Give an informative note on Cognition enhancers.	05 05
Q. 6	(a) (b) (c)	Give SAR of benzoic acid and aniline derivatives with local anesthetic activity. Share your knowledge in detail on DMARDs. Give structure of: (Any five) i). Amphetamine ii). Allopurinol iii). Ibuprofen iv). L-dopa v). Naproxen vi). Fluoxetine.	06 05 05
Q.7	(a) (b)	Write a short note on antiparkinson agents. Define and classify sedative and hypnotics with at least three drug examples and one structure of each category.	06 05
	(c)	Give an informative note on drugs for the Alzheimer's disease.	05
