GUJARAT TECHNOLOGICAL UNIVERSITY			
Subje Subje	ect Co ect Na	rm - SEMESTER-VI- (NEW SYLLABUS) EXAMINATION – SUMMER-20 ode: 2260004 Date: 07/05/2019 ome: Pharmaceutical Chemistry – VIII (Medicinal Chemistry-II) 80 am to 1:30 pm Total Marks: 80	5
Instr	uction	ns:	
 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1	(a) (b) (c)	Explain the theory of receptors in detail. Explain factors affecting the drug-receptor interactions What are receptors? Give the forces involved in Drug-receptor interactions.	06 05 05
Q.2	(a)	Write structure and IUPAC name of following: 1. Indomethacin 2. Chlorpromazine 3. Halothane 4. Carbamazepine 5. Thiopental Sodium 6. Amphetamine	06
	(b) (c)	Write synthesis of one non-heterocyclic antidepressant drug. Give synthesis and uses of Phenytoin and Amphetamine.	05 05
Q.3	(a) (b) (c)	Comment on Benzoic acid and Aniline derivatives as local anesthetics. Give one structural example from each class. What are tricyclic antidepressants? Write short note on SSRI. What are antipsychotic agents? Write SAR of Phenothiazine.	06 05 05
Q.4	(a) (b)	Explain the term epilepsy. Discuss types of epilepsy and write a note on Hydantoins. Write the general method of synthesis of barbiturates? Discuss the SAR of barbiturate.	06 05
Q.5	(c) (a) (b) (c)	Write a note on hallucinogens. Classify CNS depressants and write a note on SAR of Barbiturates. Discuss treatment of Gout and hyperurecimia in detail. Write a short note on cognition enhancers OR DMARD's.	06 05 05
Q. 6	(a) (b) (c)	Write a note on Phase II metabolism. What are the factors affecting drug metabolism and add a note on CYP450. Classify Xenobiotic metabolism based on functional group with examples.	06 05 05
Q.7	(a) (b) (c)	What are NSAIDs? Classify them with two examples of each class. Write synthesis of one non steroidal NSAID having one chiral center. Write note on drugs used in Alzheimer's disease OR Parkinson's disease. Write IUPAC name and synthesis of any two drugs: 1. Diclofenac sodium	06 05 05

Naproxen
 Mefenamic acid