Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – 6- EXAMINATION –WINTER - 2018

Subject Code: 2260004 Date: 29/11/2018

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.**
2. **Make Suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Define sedatives and hypnotics. Classify with examples. Discuss general method of synthesis of barbiturates.	**06**
	(b)	Discuss SAR of local anesthetics having amide linkage in their structures.	**05**
	(c)	What is Alzheimer's disease? Discuss its cause and treatment.	**05**
Q.2	**(a)**	What is Phase-II metabolism? How glucoronide conjugation helps to metabolized drug molecules. Explain with examples.	**06**
	(b)	Write note on anti-gout drugs.	**05**
	(c)	Write synthesis of Lignocaine and discuss its mode of action.	**05**
Q.3	**(a)**	Enlist and explain factors affecting drug-receptor interaction.	**06**
	(b)	Explain Various Forces involved in Drug-Receptor Interaction	**05**
	(c)	Write synthesis of i) Halothane ii) Chlorpromazine	**05**
Q.4	**(a)**	Write synthesis of any two: 1) Ibuprofen 2) Nimesulide 3) Phenytoin	**06**
	(b)	Classify and Explain Hallucinogens in detail.	**05**
	(c)	Write synthesis of i) L-Dopa ii) Diclofenac	**05**
Q.5	**(a)**	Describe various forces involved in drug receptor interaction with examples.	**06**
	(b)	Discuss SAR of Tricyclic Antidepressant drugs with suitable example.	**05**
	(c)	Write synthesis of drugs i) xylocaine ii) Thiopental sodium	**05**
Q. 6	**(a)**	Define antipsychotic agents. Write detailed SAR of phenothiazines.	**06**
	(b)	Explain different types of epilepsy. Classify epileptic agents with examples.	**05**
	(c)	Write note on anti-anxiety agents.	**05**
Q.7	**(a)**	Write short notes on analeptic agents.	**06**
	(b)	What are CNS dipressants. Write SAR of butyrophenones.	**05**
	(c)	What is Cytochrome P-450? Explain its role and function in Xenobiotic Metabolism	**05**

****