Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm – SEMESTER – VI - EXAMINATION – SUMMER - 2017

Subject Code: 2260004 **Date: 05/05/2017**

Subject Name: Pharmaceutical Chemistry –VIII (Medicinal Chemistry - II)

Time: 10.30 am to 01.30 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)**	Explain Occupational theory and Induced fit theory of receptor in detail.	**06**
	(b)	Write a brief note on factors affecting drug- receptor interaction.	**05**
	(c)	Define Xenobiotics. Give importance of CYP-450 in drug metabolism.	**05**
Q.2	**(a)**	Enlist different pathways of drug metabolism. Describe any two conjugation reaction in drug metabolism giving specific examples.	**06**
	(b)	Explain factors affecting drug metabolism in brief.	**05**
	(c)	Define and classify CNS stimulants. Write a note on analeptics.	**05**
Q.3	**(a)**	Define Insomnia. Explain mechanism and structure activity relationship of Barbiturates derivatives.	**06**
	(b)	Explain Structure activity relationship and mode of action of Tricyclic antidepressants.	**05**
	(c)	Write a note on hallucinogens.	**05**
Q.4	**(a)**	Classify the drugs used in epilepsy in detail. Give synthesis of Phenytoin.	**06**
	(b)	Define Anxiety. Write a note on Anxiolytic drugs.	**05**
	(c)	Give synthesis of L-Dopa and Chlordiazepoxide.	**05**
Q.5	**(a)**	Define and classify local anesthetics. Explain the SAR of benzoic acid derivatives in detail.	**06**
	(b)	What is Alzheimer's disease? Write note on drugs used in Alzheimer's disease.	**05**
	(c)	Give synthesis and uses of Thiopental sodium and Fluoxetine.	**05**
Q. 6	**(a)**	What is Psyhoses? Give chemical classification of Antipsychotics and discuss the SAR of phenothiazine.	**06**
	(b)	What is Parkinsons disease? Write a note on antiparkinson's agents.	**05**
	(c)	Explain stages of anesthesia with classification of Inhalation anesthetics.	**05**
Q.7	**(a)**	What are NSAIDS? Give chemical classification of NSAIDS in detail.	**06**
	(b)	Write a brief note on antigout agents.	**05**
	(c)	Give synthesis of Diclofenac, Ibuprofen and Aspirin.	**05**

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