Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VI • EXAMINATION – SUMMER 2013

Subject Code: 260004 **Date: 30-05-2013**

Subject Name: Pharmaceutical Chemistry-VIII

Time: 10.30 am - 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 different theories of receptors.	**06**
	(b)	Write a note on factors affecting drug receptor interaction.	**05**
	(c)	What is CYP450 ? Give its function and importance.	**05**
Q.2	(a)	What is xenobiotics ? Explain Phase II reactions with examples.	**06**
	(b)	What are Cholinergics ? What are their physiological actions. Give SAR of Acetylcholine.	**05**
	(c)	Write synthesis of any two compounds : (1) Dicyclomine Hydrochloride (2) Ephedrine (3) Isoprenaline	**05**
Q.3	(a)	What are CNS stimulants ? Classify them. Give their uses and synthesis of Imipramine.	**06**
	(b)	What do you mean by hallucination ? Write a note on hallucinogens.	**05**
	(c)	Write short note on neuromuscular blocking agents.	**05**
Q.4	(a)	What is epilepsy ? Explain different types of seizures. Classify antiepileptics with eamples.	**06**
	(b)	What are general anesthetics? How they act ? Give SAR of local anesthetics.	**05**
	(c)	Classify hypnotic and sedatives with examples. Give their uses and SAR of barbiturates.	**05**
Q.5	(a)	Write IUPAC name and synthesis of any three drugs : (i) Thiopental sodium (ii) Phenytoin (iii) Carbamazepine (vi) Chlorpromazine	**06**
	(b)	What are opiod analgesics? How they differ from NSAIDs.	**05**
	(c)	Write a note on antiparkinson drugs.	**05**
Q. 6	(a)	Write IUPAC name and synthesis of any three drugs : (1) Diclofenac sodium (2) Ibuprofen (3) Mefenamic acid (4) Paracetamol	**06**
	(b)	Give main points of structure activity relationship of morphine.	**05**
	(c)	Write short note on Alzeimer's disease.	**05**
Q. 7	(a)	What is psychoses ? Give SAR of Phenothiazines.	**06**
	(b)	Write a note on adrenergic antagonists.	**05**
	(c)	Explain factors affecting drug metabolism.	**05**

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