

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 **05**
(2) Ephedrine (3) Isoprenaline
- 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 examples. **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 : **06**
(i) Thiopental sodium (ii) Phenytoin
(iii) Carbamazepine (vi) Chlorpromazine
(b) What are opioid 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 : **06**
(1) Diclofenac sodium (2) Ibuprofen (3) Mefenamic acid (4) Paracetamol
(b) Give main points of structure activity relationship of morphine. **05**
(c) Write short note on Alzheimer'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**
