

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: **06**
1) Ibuprofen
2) Nimesulide
3) Phenytoin
(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 depressants. Write SAR of butyrophenones. **05**
(c) What is Cytochrome P-450? Explain its role and function in Xenobiotic Metabolism **05**
