

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.**

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| 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 glucuronide 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 |
