

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. - SEMESTER- VI- EXAMINATION – WINTER -2021**

**Subject Code: 2260004****Date: 29/11/2021****Subject Name: Pharm. Chemistry-VIII (Med. Chemistry-II)****Time:02:30pm TO 05:30PM****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) Discuss factors affecting drug receptor interaction. **06**  
(b) What are receptors ? Discuss various types of receptors. **05**  
(c) Write short notes on Alzheimers disease. **05**
- Q.2** (a) What is xenobiotics ? Discuss Phase II reactions in drug metabolism. **06**  
(b) Explain the factors affecting drug metabolism. **05**  
(c) What is the role of CYP450 in drug metabolism. **05**
- Q.3** (a) What are general anesthetics ? Classify them with examples. Give IUPAC name and synthesis of Halothane. **06**  
(b) Give synthesis of the following drugs : **05**  
(i) Thiopental sodium (ii) Phenytoin  
(c) Write SAR of Local anesthetics. **05**
- Q.4** (a) Define and classify antipsychotics with examples. Give SAR of Butyrophenones. **06**  
(b) What are Analeptics ? Give synthesis of Amphetamine and Imipramine. **05**  
(c) Give SAR of Benzodiazepines. **05**
- Q.5** (a) Classify Antidepressants with examples. **06**  
(b) Write short notes on cognition enhancers. **05**  
(c) What is Parkinsonism ? Write mechanism of action of Antiparkinson drugs. **05**
- Q. 6** (a) Classify NSAIDS with examples. Give their mechanism of action. **06**  
(b) Write short notes on DMARDS. **05**  
(c) Give synthesis of **05**  
(i) Diclofenac sodium (ii) Mefenamic acid
- Q.7** (a) Write short notes on the followings : **06**  
(i) Epilepsy and its drugs (ii) Anxiolytics  
(b) Write IUPAC name and synthesis of the following drugs : **05**  
(i) Carbamazepine (ii) Ibuprofen  
(c) Give the metabolic path of Aspirin and Phenobarbitone. **05**

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