

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2020**

**Subject Code: 2260004****Date: 29-10-2020****Subject Name: Pharmaceutical Chemistry – VIII (Medicinal Chemistry - II)****Time: 10:30 AM TO 1:30 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) Give types of receptors. Discuss theories of drug receptor interaction in detail **06**  
(b) What is CYP450 ? Explain its importance **05**  
(c) Discuss factors affecting drug metabolism **05**
- Q.2** (a) Discuss in detail the SAR of tricyclic antidepressants **06**  
(b) Outline synthetic route for Amphetamine and Chlorpromazine **05**  
(c) Explain importance of drug metabolism in drug design **05**
- Q.3** (a) What are xenobiotics? How drugs metabolized in Phase-I metabolism **06**  
(b) Discuss conjugation as mechanism of metabolism **05**  
(c) What are cognition enhancers? Describe them in detail **05**
- Q.4** (a) Give an account of antiparkinsons agents. Give synthesis of L-Dopa **06**  
(b) What is alzheimer disease? Discuss its treatment **05**  
(c) What are the current developments in drugs acting on CNS? **05**
- Q.5** (a) Give synthesis of any two : Paracetamol, Diclofenac and Nimesulide **06**  
(b) Give an account of anti-gout agents **05**  
(c) Explain terms NSAID and DMARD. How opioid analgesic differ from NSAID **05**
- Q. 6** (a) What are hypnotics and sedatives? What are anxiolytics? What are antipsychotics? **06**  
(b) What are antiepileptics? Write a note on Hydantoins **05**  
(c) Give an account of general and local anesthetics **05**
- Q.7** (a) Classify antidepressants. Give name and structure of any one drug in each class **06**  
(b) Write a note on Hallucinogens **05**  
(c) Write a note on Barbiturates **05**

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