

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.

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|-------------|-----|--|-----------|
| 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 |
