

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – WINTER -2019

Subject Code: 2260004**Date: 04-12-2019****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) Write in brief about different theories of drug receptor interactions. **06**
(b) Discuss the factors affecting drug receptor interactions. **05**
(c) How drug metabolism is helpful in drug design. **05**
- Q.2** (a) Explain Phase I reactions of drug metabolism in brief. **06**
(b) What is CYP450 and give its importance. **05**
(c) Write SAR of tricyclic antidepressants. **05**
- Q.3** (a) Explain Analeptics and Hallucinogens. Give synthesis of Imipramine. **06**
(b) What is epilepsy? Classify antiepileptics with examples. Give synthesis of Phenytoin. **05**
(c) Define hypnotics and sedatives and give SAR of barbiturate derivatives. **05**
- Q.4** (a) Classify local anesthetics with examples. Write their mechanism of action. **06**
(b) What do you mean by psychiatric disease? Give SAR of Phenothiazines. **05**
(c) Write short notes on DMARDS. **05**
- Q.5** (a) Give IUPAC name and synthesis of the following drugs : **06**
(i) Lignocaine (ii) Indomethacin (iii) Diclofenac
(b) Write short note on Alzheimer's disease. **05**
(c) Classify NSAIDs and give their mechanism of action. **05**
- Q. 6** (a) What are different reasons of Parkinson's disease. Give synthesis of L-dopa. **06**
(b) Explain the term receptor and write about different types of receptors. **05**
(c) Write short note on cognition enhancers. **05**
- Q.7** (a) Write IUPAC name and synthesis of the following drugs : **06**
(i) Phenobarbitone (ii) Thiopentone sodium
(ii) Carbamazepine.
(b) Explain in brief factors affecting drug metabolism. **05**
(c) Write in short about conjugation reactions of drug metabolism. **05**
