

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.

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|------------|---|-----------|
| 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 : (i) Lignocaine (ii) Indomethacin (iii) Diclofenac | 06 |
| | (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 : (i) Phenobarbitone (ii) Thiopentone sodium (ii) Carbamazepine. | 06 |
| | (b) Explain in brief factors affecting drug metabolism. | 05 |
| | (c) Write in short about conjugation reactions of drug metabolism. | 05 |
