

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-6 • EXAMINATION – SUMMER -2018**Subject Code:2260004****Date:08/05/2018****Subject Name: Pharmaceutical Chemistry VIII (Medicinal Chemistry II)****Time: 10:30AM TO 01:30PM****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) Write down Phase I metabolism in detail. **06**
(b) Write a note on CYP450. **05**
(c) What are the factors affecting drug metabolism. **05**
- Q.2** (a) Explain the theory of receptors in detail. **06**
(b) Write a note on Phase II metabolism. **05**
(c) Explain factors affecting the drug-receptor interactions **05**
- Q.3** (a) Give chemical classification of Antipsychotics and discuss the SAR of Phenothiazine. **06**
(b) Write down SAR of Tricyclic Antidepressant agents. **05**
(c) Give IUPAC name and synthesis of Fluoxetine and Imipramine. **05**
- Q.4** (a) Classify barbiturates with examples. Give SAR of barbiturates. **06**
(b) What are DMARDS? Give synthesis of Paracetamol. **05**
(c) Give IUPAC name and synthesis of Halothane and Lignocaine. **05**
- Q.5** (a) What are antiepileptic drugs? Give them mechanism of action. Classify with examples. **06**
(b) Write SAR of butyrophenones. **05**
(c) Give IUPAC name and synthesis of Phenytoin and Carbamazepine. **05**
- Q. 6** (a) Write a note on Antiparkinson's agents with examples. **06**
(b) Write a short note on cognition enhancer. **05**
(c) Write a short note Alzheimers disease. **05**
- Q.7** (a) What are NSAIDS? Classify them with examples giving one structure from each class. **06**
(b) Write a note on Anti-Gout agents. **05**
(c) Give IUPAC name and synthesis of Diclofenac and Ibuprofen. **05**
