

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.

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