

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEM-VI Examination-Nov/Dec.-2011

Subject code: 260004

Date: 28/11/2011

Subject Name: Pharmaceutical Chemistry - VIII

Time: 10.30 am-01.30 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) Explain the theory of receptors in detail. | 06 |
| | (b) Classify Xenobiotic metabolism based on functional group with examples. | 05 |
| | (c) Give the synthesis of Dicyclomine hydrochloride and Dopamine | 05 |
| Q.2 | (a) Explain SAR of Phenylethanalamines. | 06 |
| | (b) What are receptors? Give the forces involved in Drug-receptor interactions. | 05 |
| | (c) Give the classification of parasympathomimetics with examples | 05 |
| Q.3 | (a) What are NSAIDS? Classify them with examples giving one structure from each class. | 06 |
| | (b) Give the synthesis of Diclofenac and Nimesulide. | 05 |
| | (c) Write a brief note on antiparkinsonism agents. | 05 |
| Q.4 | (a) Discuss the SAR of morphine in detail. | 06 |
| | (b) Explain in brief about neuromuscular agents. | 05 |
| | (c) Write a note on adrenergic agonists. | 05 |
| Q.5 | (a) What are antipsychotic agents? Classify them with examples. Discuss the SAR of butyrophenones. | 06 |
| | (b) Explain in brief about Benzodiazepines as CNS depressants. | 05 |
| | (c) Give the synthesis of carbamazepine and phenytoin. | 05 |
| Q. 6 | (a) Discuss the factors affecting drug metabolism. | 06 |
| | (b) Explain in brief about antigout agents. | 05 |
| | (c) Write a brief note on cognition enhancer. | 05 |
| Q.7 | (a) | 06 |
| | Differentiate between COX-I and COX-II enzyme. Give the structures of various COX-II inhibitors with its toxicity. | |
| | (b) Write a note of antiepileptic agents. Give the synthesis of valproic acid. | 05 |
| | (c) | 05 |
| | Define and classify Local anesthetics. | |
