

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-6 • EXAMINATION – WINTER -2023

Subject Code:260004**Date:12/12/2023****Subject Name: Pharmaceutical Chemistry – VIII (Medicinal Chemistry)****Time: 02:30pm to 05:30pm****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) Discuss in detail about various forces involved in drug receptor interactions. | 06 |
| | (b) Write short notes on DMARDs | 05 |
| | (c) Write chemical classification, mechanism of action, uses and side effect of Non-steroidal anti-inflammatory agents. | 05 |
| Q.2 | (a) Briefly explain Phase 1 drug metabolism with examples. | 06 |
| | (b) Write short notes on factor affecting drug metabolism. | 05 |
| | (c) Write synthesis of Phenobarbitone and Phenytoin | 05 |
| Q.3 | (a) Write SAR of Parasympathomimetic agents. | 06 |
| | (b) Write SAR of acetylcholine antagonist. | 05 |
| | (c) Write synthesis of Adrenaline and Neostigmine | 05 |
| Q.4 | (a) Write SAR of B-phenylethanolamine adrenergic agonist. | 06 |
| | (b) Write detail notes on Neuromuscular junction blockers. | 05 |
| | (c) Write synthesis of Naphazoline and Salbutamol. | 05 |
| Q.5 | (a) Briefly explain structural modification for Tricyclic Antidepressants. | 06 |
| | (b) Write detail SAR of Benzodiazepines derivatives. | 05 |
| | (c) Write synthesis of Fluoxetine and Imipramine. | 05 |
| Q.6 | (a) Write SAR of Phenothazine derivatives. | 06 |
| | (b) Briefly explain structural modification of local anesthetic agents. | 05 |
| | (c) Write synthesis of Thiopental sodium and Lignocaine | 05 |
| Q.7 | (a) Briefly explain Opioid Analgesics and Non-Opioid Analgesics. Write synthesis of Naproxen. | 06 |
| | (b) Write short details on below mentioned category:
a) Antiparkinson's agent
b) Anti-Alzheimer's agent | 05 |
| | (c) Explain analeptics and hallucinogens with examples. | 05 |
