

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2023

Subject Code: 260004**Date: 28/06/2023****Subject Name: Pharmaceutical Chemistry – VIII (Medicinal Chemistry)****Time:10.30 a.m. to 1.30 p.m.****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) Explain Phase I reactions of drug metabolism in brief. **06**
(b) What is Xenobiotics? Describe Phase-I of Xenobiotic metabolism. **05**
(c) Write a note on Neuromuscular blocking agents. **05**
- Q.2** (a) Discuss the factors affecting drug receptor interactions. **06**
(b) Describe factors affecting drug metabolism. **05**
(c) Write in brief about different theories of drug receptor interactions. **05**
- Q.3** (a) Write synthesis of any two 1) Pethidine 2) Lignocaine 3) Phenytoin **06**
(b) Classify NSAIDs and give their mechanism of action. **05**
(c) Explain the SAR of anilide derivatives of local anesthetics. **05**
- Q.4** (a) Give synthesis of any two of the following 1) Isoprenaline 2) Dopamine **06**
3) Neostigmine
(b) Describe SAR of Parasympathomimetics in detail. **05**
(c) Define hypnotics and sedatives and give SAR of barbiturate derivatives. **05**
- Q.5** (a) Write a detail note on Antiparkinson's agents **06**
(b) Write a detail note on Alzheimer's disease. **05**
(c) Write short notes on DMARDS. **05**
- Q. 6** (a) Write synthesis of any two 1) Mefenamic acid 2)Aspirin 3) Paracetamol **06**
(b) Write a note on Cognition enhancers **05**
(c) Define Antidepressants. Write the SAR of tricyclic antidepressants. **05**
- Q.7** (a) Classify sedative and Hypnotics. Discuss SAR of Benzodiazepines. **06**
(b) Classify local anesthetics with examples. Write their mechanism of action. **05**
(c) Write a note on anti-gout agents. **05**