

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEM-IV • EXAMINATION – SUMMER -2022

Subject Code: BP404TP**Date: 20/07/2022****Subject Name: Pharmacology I****Time: 10:30AM TO 1:30PM****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) | Classify Sympathomimetics. Write therapeutic uses of Sympathomimetics. | 06 |
| | (b) | Define Local anaesthetics. Discuss the classification of local anaesthetics. | 05 |
| | (c) | Write a note on Neuromuscular Blocking Agents. | 05 |
| Q.2 | (a) | Discuss pharmacological actions of Alcohols. Discuss treatment of Methanol Poisoning. | 06 |
| | (b) | Classify anti-epileptic drugs. Explain pharmacology of Phenytoin in detail. | 05 |
| | (c) | Define dependence. Write factors involved in the development of drug dependence. | 05 |
| Q.3 | (a) | Enlist types of receptors. Discuss various transduction mechanisms of G Protein Coupled Receptor. | 06 |
| | (b) | Write note on GABA as a neurotransmitter. | 05 |
| | (c) | Explain pharmacology of β - Blockers in detail. | 05 |
| Q.4 | (a) | Classify antipsychotic agent and write a note on atypical antipsychotic agents. | 06 |
| | (b) | Write pharmacological treatment of Alzheimer's Disease. | 05 |
| | (c) | Discuss factors modifying drug action in detail. | 05 |
| Q.5 | (a) | Differentiate Oral and Parenteral route of drug administration. | 06 |
| | (b) | Classify Skeletal Muscle Relaxants. Explain pharmacology of d-Tubocurarine. | 05 |
| | (c) | Write detail note on Pharmacovigilance. | 05 |
| Q.6 | (a) | Discuss 1) Plasma Protein Binding 2) BBB. | 06 |
| | (b) | Classify anti-parkinsonian drugs. Why Levodopa and Carbidopa are used in combination? | 05 |
| | (c) | Explain various phases of clinical trial in brief. | 05 |
| Q.7 | (a) | Define the term: Pharmacometrics, Bioassay, Pharmacodynamics, Pharmacokinetic, Drug dependence, Drug addiction | 06 |
| | (b) | Discuss pharmacological actions and therapeutic uses of morphine. | 05 |
| | (c) | Differentiate competitive and noncompetitive antagonism. | 05 |
