

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
