

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-IV • EXAMINATION – SUMMER -2023

Subject Code: BP404TP**Date: 19/07/2023****Subject Name: PHARMACOLOGY- I****Time: 10:30AM TO 01:30PM****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) | Explain merits and demerits of oral route of drug administration. | 06 |
| | (b) | Define and differentiate between competitive and non- competitive antagonist with example. | 05 |
| | (c) | Explain the enzyme induction and inhibition with suitable example. | 05 |
| Q.2 | (a) | Discuss Mechanism of action and pharmacological actions of Adrenaline. | 06 |
| | (b) | Enumerate different types of receptors and explain drug-receptor interaction and signal transduction. | 05 |
| | (c) | Classify General Anaesthetics. Discuss the stages of general anaesthesia. | 05 |
| Q.3 | (a) | Describe synthesis and metabolism of Acetylcholine. | 06 |
| | (b) | Describe the Mechanism of action and pharmacological actions of Ethyl alcohol. | 05 |
| | (c) | Write a note on opioid analgesics. | 05 |
| Q.4 | (a) | Classify antiepileptic drugs. Explain in detail Phenytoin. | 06 |
| | (b) | Write a note on Parasympatholytic-Atropine. | 05 |
| | (c) | Discuss types of Glaucoma and Pharmacological Drug treatment. | 05 |
| Q.5 | (a) | Define clinical trial. Discuss various phases of clinical trial. | 06 |
| | (b) | Write a note on Pharmacological and non-pharmacological treatment of Depression. | 05 |
| | (c) | Write a note on drug addiction and drug abuse. | 05 |
| Q. 6 | (a) | Discuss various Local anesthetics agents. | 06 |
| | (b) | Write on role of GABA as a neurotransmitter in CNS. | 05 |
| | (c) | Classify drugs used in Parkinsonism. Explain why Carbidopa is used in combination with Levodopa. | 05 |
| Q.7 | (a) | Write a note on Adverse drug reaction. | 06 |
| | (b) | Explain the factors affecting drug metabolism and excretion. | 05 |
| | (c) | Explain the pharmacology of CNS stimulants. | 05 |
