

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER- IV • EXAMINATION – WINTER-2020

Subject Code: BP404TP**Date: 12/02/2021****Subject Name: Pharmacology-I****Time: 02:30PM TO 04:30PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. **Q.7 is compulsory to attempt.**
3. **Make suitable assumptions wherever necessary.**
4. **Figures to the right indicate full marks.**

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|-------------|-----|---|-----------|
| Q.1 | (a) | Classify general anesthetics. Discuss various stages of general anesthesia. | 06 |
| | (b) | Compare and contrast succinylcholine and d-tubocurarine as skeletal muscle relaxants. | 05 |
| | (c) | Differentiate Oral route and Parenteral route. | 05 |
| Q.2 | (a) | Classify anti-parkinsonian drugs. Describe pharmacology of levodopa combination with carbidopa. | 06 |
| | (b) | Describe Pharmacokinetic type of drug-drug interactions. | 05 |
| | (c) | Explain Pharmacological actions of alcohol. | 05 |
| Q.3 | (a) | Discuss 1) Plasma protein binding 2) BBB. | 06 |
| | (b) | Describe mechanism of action and uses of lidocaine. | 05 |
| | (c) | Write a note on Organophosphorus poisoning and its treatment. | 05 |
| Q.4 | (a) | Explain signal transduction mechanism of GPCR. | 06 |
| | (b) | Describe Rawlins Thompson classification of ADR in details. | 05 |
| | (c) | Classify parasympatholytics. Discuss therapeutic uses of atropine. | 05 |
| Q.5 | (a) | Classify sympathomimetics. Describe Dale's vasomotor reversal in detail. | 06 |
| | (b) | Enlist and Explain four phases of clinical trials. | 05 |
| | (c) | Differentiate competitive and non competitive antagonism. | 05 |
| Q. 6 | (a) | Explain Phase I reactions of drug metabolism. | 06 |
| | (b) | Discuss pharmacological actions and therapeutic uses of morphine. | 05 |
| | (c) | Write note on GABA as an inhibitory neurotransmitter of CNS. | 05 |
| Q.7 | (a) | Classify anti-depressants. Write a note on SSRIs. | 06 |
| | | OR | |
| | (a) | Discuss Pharmacology of Phenytoin. | 06 |
| | | OR | |
| | (a) | Write a note on Pharmacovigilance. | 06 |
