

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 4 EXAMINATION – WINTER -2019

Subject Code: BP404TP**Date: 19-12-2019****Subject Name: Pharmacology I****Time: 02:30 PM TO 05:30 PM****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) | Write a note on Sources of drugs. | 06 |
| | (b) | Define following terms: 1) Pharmacology 2) Agonist 3) Drug tolerance 4) Allergy 5) Idiosyncrasy | 05 |
| | (c) | Describe synthesis and metabolism of adrenergic neurotransmitter. | 05 |
| Q.2 | (a) | Explain merits and demerits of parental route. | 06 |
| | (b) | Enlist factors affecting oral drug absorption. | 05 |
| | (c) | Classify parasympathomimetic agents with example. Write a note on pilocarpine. | 05 |
| Q.3 | (a) | Describe zero order and first order kinetic of drug elimination. | 06 |
| | (b) | Explain the enzyme induction and inhibition. | 05 |
| | (c) | Write a note on G protein coupled receptors. | 05 |
| Q.4 | (a) | Describe various phases of clinical trial and its importance. | 06 |
| | (b) | Write a note on Adverse drug reaction. | 05 |
| | (c) | Classify sedative-hypnotic agents. Describe in detail barbiturates. | 05 |
| Q.5 | (a) | Differentiate between sympathetic and parasympathetic nervous system. | 06 |
| | (b) | Describe the different stages of anesthesia. | 05 |
| | (c) | Describe the pharmacology of Acetylcholine. | 05 |
| Q. 6 | (a) | Describe the pharmacological actions of Ethyl alcohol. | 06 |
| | (b) | Classify types of epilepsy. Describe phenytoin in detail. | 05 |
| | (c) | Elaborate following terms with examples a) drug addiction and b) drug dependence. | 05 |
| Q.7 | (a) | Describe pharmacology of opioid analgesics. | 06 |
| | (b) | Write a note on CNS stimulant agents. | 05 |
| | (c) | What are preanesthetic agents? How they are useful? | 05 |
