

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 **05**
4) Allergy 5) Idiosyncrasy
(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**
