

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2014

Subject Code: 2240005

Date: 31-12-2014

**Subject Name: Basic Concepts of Pharmacology and
Clinical Pharmacy Practice**

Time: 02:30 pm - 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) Explain competitive and non-competitive antagonism with suitable example. **06**
(b) Explain the various source of drug with example. **05**
(c) Define the terms: Clinical Pharmacy, Pharmacoeconomics, Pharmacodynamics, Chemotherapy, Drug Tolerance. **05**
- Q.2** (a) Write the different routes of drug administration. **06**
(b) Define therapeutic drug monitoring and explain its significance. **05**
(c) Write a short note on scope of clinical pharmacy. **05**
- Q.3** (a) Describe reasons for irrational drug use. **06**
(b) Write a short note on factors affecting absorption of drug. **05**
(c) Define the terms: Agonist, Antagonist, Synergism, Receptor, Tachyphylaxis. **05**
- Q.4** (a) Classify various types of drug interaction. Discuss Pharmacodynamic drug interaction with suitable example. **06**
(b) Classify receptors. Write a short note on G-protein coupled receptors. **05**
(c) Write a short note on active transport. **05**
- Q.5** (a) Write a short note on Drug and Therapeutic Committee. **06**
(b) Write a short note in advantages and disadvantages of oral route of drug administration. **05**
(c) Write a short note on patient counseling. **05**
- Q. 6** (a) Enlist basic processes involved in pharmacokinetics. Explain various factors affecting biotransformation of drugs. **06**
(b) Write a short note on medication adherence. **05**
(c) Write a short note on essential medicine list. **05**
- Q.7** (a) Write a short note on medication errors. **06**
(b) Discuss about dose adjustment required in children and elderly patients. **05**
(c) Write a short note on Plasma protein binding and microsomal enzyme induction. **05**
