

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-IV • EXAMINATION – SUMMER-2017

Subject Code: 2240005

Date: 06/05/2017

Subject Name: Basic Concepts of Pharmacology and Clinical Pharmacy Practice

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) Describe various factors affecting distribution of drugs. **06**
(b) Write a note on various routes of administration of drug. **05**
(c) Define following terms: 1. Poison 2. Tachyphylaxis 3. Pharmacokinetics **05**
4. Chemotherapy 5. Pharmacoepidemiology
- Q.2** (a) Define biotransformation. Explain various factors affecting biotransformation of drugs. **06**
(b) Write a short note on therapeutic drug monitoring. **05**
(c) Define bioavailability. Explain single dose and multiple dose bioavailability. **05**
- Q.3** (a) Write a note on carrier mediated drug transport across biological membrane. **06**
(b) Write a note on medication non-adherence. **05**
(c) Write a note on dose response relationship. **05**
- Q.4** (a) Classify receptors. Write a short note on G-protein coupled receptors. **06**
(b) Define antagonism. Explain competitive and noncompetitive antagonism. **05**
(c) Explain pharmacokinetic considerations in dose adjustment required in pediatric patients. **05**
- Q.5** (a) Discuss about various pharmacokinetic drug interactions with example. **06**
(b) Discuss following terms: 1. Drug withdrawal reactions 2. Iatrogenic effects. **05**
(c) Write a note on scope of clinical pharmacy. **05**
- Q.6** (a) Define pharmacovigilance. Describe various contributing factors for adverse drug reaction monitoring. **06**
(b) Write a short note on medication errors. **05**
(c) Write a note on patient counselling. **05**
- Q.7** (a) Explain the factors affecting the absorption of drugs. **06**
(b) Discuss the importance of drug and poison information center. **05**
(c) Write a principle involved in concept of essential medicines and rational drugs use. **05**
