

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2016

Subject Code: 2240005

Date: 25-10-2016

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

Time: 10:30 am - 01:30 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) Classify various routes of drug administration and write advantages and disadvantages of parenteral route. | 06 |
| | (b) Explain in detail about Medication adherence and non-adherence. | 05 |
| | (c) Write notes on therapeutic drug monitoring. | 05 |
| Q.2 | (a) Enlist various types of drug interactions. Write in detail about pharmacokinetic drug interaction. | 06 |
| | (b) Write a short note on G- protein coupled receptor. | 05 |
| | (c) Write a short note on drug food interaction. | 05 |
| Q.3 | (a) Enlist and explain various factors responsible for variation in drug response. | 06 |
| | (b) Describe the various types of Drug Antagonism. | 05 |
| | (c) Explain the clinical importance of plasma protein binding. | 05 |
| Q.4 | (a) What is the principle of patient counseling? Describe various forms of Counseling and Interviewing Skills. | 06 |
| | (b) Define bioavailability. Explain the term of plasma half life and give its clinical importance. | 05 |
| | (c) Write a short notes on: 1) First Pass effect 2) Enterohepatic cycling | 05 |
| Q.5 | (a) Discuss pharmacokinetic variations in geriatric patients as compared to adults. | 06 |
| | (b) Write a note on enzyme induction and enzyme inhibition with examples. | 05 |
| | (c) Discuss the scope of pharmacology and clinical pharmacy. | 05 |
| Q. 6 | (a) Define adverse drug reactions and differentiate between Type A and Type B adverse drug reactions. | 06 |
| | (b) Write a note on Medication errors and adverse drug events. | 05 |
| | (c) Discuss absorption process and factors affecting drug absorption. | 05 |
| Q.7 | (a) Define essential drugs. What are the advantages of essential drug list? Give criteria for choice of essential drug. | 06 |
| | (b) Define and write the methods of Pharmacovigilance and what is the role of pharmacist. | 05 |
| | (c) Explain combined effects of drugs. | 05 |
