

**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**

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