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