Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm.	- SEMESTER-I	IV • EXAMIN	NATION - SUN	MMER-2016
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Subject Code:2240005	Date: 03/06/2016
Subject Name: Basic Concepts of Pharmacology and Clinic	cal Pharmacy Practice
Time: 10:30 AM to 1:30 PM	Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks.

Q.1	(a)	Classify the route of drug administration and describe in detail sublingual route of drug administration.	06
	(b)	Define following term i) Pharmacodynamic ii) Pharmacogenomics iii) Pharmacokinetics iv) Drug tolerance v) Pharmacology	05
	(c)	Write a short note on scope of pharmacology and clinical pharmacy.	05
Q.2	(a)	Classify various type of drug transport mechanism across the cell membrane and describe in detail active transport mechanism.	06
	(b)	Write a short note on plasma protein binding.	05
	(c)	Which are the various factors affecting drug dose selection during pediatric and geriatric patients.	05
Q.3	(a)	Write a short note on therapeutic drug monitoring and its significance.	06
	(b) (c)	Write short note on bioavailability. Write a short note BBB	05 05
Q.4	(a) (b)	Classify various type of receptor and decribe in detail GPCR. Define following terms with example i) Potentiation ii) Addition iii) Synergism iv) Agonist v) Partial antagonist	06 05
	(c)	Differentiate: Competitive antagonism and Non competitive antagonism.	05
Q.5	(a)	Classify the various types of Drug interaction and describe in detail pharmacokinetic interaction.	06
	(b) (c)	Write a short on rational use of drug. Write a short note on microsomal enzyme induction.	05 05
Q. 6	(a) (b) (c)	Write a short note on pharmacokinetic type of ADR. Write a short note on drug nomenclature Write a short note on volume of distribution.	06 05 05
Q.7	(a) (b) (c)	Write a short note on biotransformation. Write a short note on essential drugs. Write a short note on teratogenicity.	06 05 05
