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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm- SEMESTER IV EXAMINATION – SUMMER - 2018

Subject Code:2240005 Subject Name: Basic Concepts of Pharmacology and Clinical Pharmacy Practice Time:10.30 am to 01.30 pm Total Marks: 1. Attempt any five questions.			
	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Classify various routes of administration. Write merits and demerits of intravenous route.	06
	(b) (c)	Explain dose response relationship. Define volume of distribution and explain factors affecting drug distribution.	05 05
Q.2	(a) (b) (c)	Write in detail on G-protein coupled receptors. Explain various sources of drugs. Differentiate competitive and non-competitive antagonism.	06 05 05
Q.3	(a) (b) (c)	Define pharmacokinetics and explain factors affecting drug absorption. Write a note on Plasma protein binding. Explain following terms: (1) Bioavailability (2) Receptor (3) Agonist (4) Clinical Pharmacy (5) Pharmacoepidemiology	06 05 05
Q.4	(a) (b) (c)	Write a note on Kinase linked receptors. Write a note on medication errors. Discuss pharmacokinetic drug interaction with suitable examples.	06 05 05
Q.5	(a) (b) (c)	Explain in details on transportation mechanisms of drug across biological membrane. Write a note on adverse drug reaction. Define the following: (1) Synergism (2) Potentiation (3) Drug tolerance (4) Half life (5) Pharmacogenetics	06 05 05
Q. 6	(a) (b) (c)	Define biotransformation. Explain mixed function oxidase system for drug metabolism. Discuss about pharmacokinetic changes in drug therapy in elderly patients. Write a short not on Blood brain barrier.	06 05 05
Q.7	(a) (b) (c)	Write a note on Therapeutic drug monitoring and its significance. Describe communication skills for patient counseling. Explain in brief the rationale use of drug.	06 05 05