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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 4 EXAMINATION – WINTER -2019

Subject Code: 2240005

Date: 16-12-2019

Subject Name: Basic Concepts of Pharmacology and Clinical Pharmacy Practice Time: 02:30 PM TO 05:30 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)	Define bioavailability. Explain single dose and multiple dose bioavailability. Discuss the scope of pharmacology and clinical pharmacy. Write a note on various sources of drugs.	06 05 05
Q.2	(a) (b) (c)	Write in detail on G-protein coupled receptors. Define therapeutic drug monitoring and explain its significance. Write a note on Essential drugs.	06 05 05
Q.3	(a) (b) (c)	Write a note on various routes of administration of drug. Explain the dose response relationship. What are the various considerations for drug prescribing during pregnancy?	06 05 05
Q.4	(a) (b) (c)	 Write in brief how pharmacokinetic factors affect the dose selection in pediatric patient. Define antagonist. Differentiate competitive and non-competitive antagonism. Define following terms: Poison Receptor Agonist Chemotherapy Pharmacoepidemiology 	06 05 05
Q.5	(a) (b) (c)	Define pharmacokinetics and explain factors affecting drug absorption. Write a note on medication errors. Write a note on medication non-adherence.	06 05 05
Q. 6	(a) (b) (c)	Explain in brief adverse drug reactions. Classify ADRs as per Rawlins Thompson system with suitable example. Write a note on drug information centre. Discuss pharmacokinetic drug interaction with suitable examples.	06 05 05
Q.7	(a)	Write a short note on1. Plasma protein binding2. Significance of Phase I and Phase II metabolism.	06
	(b) (c)	 Explain in detail about Medication adherence and non-adherence. Define the following: Synergism Potentiation Drug tolerance 	05 05

- 4. Half life
- 5. Pharmacogenetics