PARUL UNIVERSITY FACULTY OF PHARMACY Pharm.D (P.B) Examination May- 2018

Enrollment No: _____

Pharm.D (P.B) Examination May- 2018	
Year: 1 Subject Code: 08207405	Date: 16/05/2018 Time: 02:00PM TO 05:00PM
Subject Name: Biopharmaceutics & Pharmacokinetics	Total Marks: 70
Instructions	
1. Figures to the right indicate maximum marks.	
2. Make suitable assumptions wherever necessary.	
Q.1Essay Type Questions. (any 2 out of 3) (15 Mark Each)	(30)
1. Enlist factors affecting on Drug Absorption. Explain any three factors in de	tail.
2. Classify the methods for bioavailability measurement. Discuss the method based on plasma data.	
3. Explain the methods for determination of absorption rate constant in detail	
Q.2Short Essay Type Questions. (any 4 out of 5) (5 Mark Each)	(20)
1. Describe Michaelis Menten equation with evaluation parameters	
2. Write a note on drug distribution to blood brain barrier.	
3. Enlist various approaches for pharmacokinetic analysis of experimental data	a and explain
compartmental models in detail.	
4. Write a short note on non-compartmental analysis.	
5. Define drug transport. Describe carrier mediated transport.	
Q.3Short Answers. (2 Mark Each)	(20)
1.Differentiate between absolute and relative bioavailability.	
2. What is gastric emptying? Describe its role in drug absorption.	
3. What is principle of superposition?	
4. What process of drug ADME are known to show non linearity? Give suitable	le examples.
5.Define clearance, total body clearance and organ clearance.	
6. What is extraction ratio w.r.t Excretion ?	
7.Comment and Justify: Creatinine is used to estimate GFR	
8. What is Mean Residence Time ?	
9.Name different methods for determination of Ke from urinary excretion data	a.
10. Write difference between Compartment and Physiological Models.	

10. Write difference between Compartment and Physiological Models.