Question Paper

Exam Date & Time: 06-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

Biopharmaceutics and Pharmacokinetics [PPR 4.5T-S1]

	Biopharmaceutics and Pharmacokinetics [PPR 4.51-S1]	
Marks: 70		Duration: 180 mins.
	Section A	
Answer al	I the questions.	
Long Answ	ver Questions (3 x 10 marks = 30 marks)	
1)	Explain the principle processes that determine the urinary excretion	(10)
2)		(10)
·	Describe kinetics of IV bolus one compartment model with necessary illustrations	
3)	Explain the Bioavailability study protocol	(10)
	Section B	
	I the questions.	
Short Ansv	ver Questions (6 x 5 marks = 30 marks)	
4)	Write the different mechanism of absorption	(5)
5)	Explain the process of IV infusion for one compartment model	(5)
6)	Explain two compartment model for IV bolus administration	(5)
7)	Describe about two compartment model for oral administration	(5)
8)	Explain physiologically based pharmacokinetic models	(5)
9)	Explain multiple dose administration kinetics of IV bolus	(5)
	Section C	
	I the questions. ons for the Following (5 x 2 marks = 10 marks)	
10)	Age influences the process of checketing	(0)
10) 11)	Age influences the process of absorption Non-linear kinetics is influenced by doses	(2) (2)
12)	Urinary pH influences the process of excretion	(2)
13)	AUC is a measure of drug exposure	(2)
14)	Principle of superposition is useful in multiple dose kinetics	(2)
• •,		(-)
	End	