

DAP-M202117

Seat No. _____

Fourth Year D. Pharm Examination May - 2022

May - 2022			
		Biopharmaceutics & Pharmacokinetics	
Time	e : 3	Hours] [Total Marks :	70
1	Answer the following questions :		20
	(1)	Define: Biopharmaceutics & Pharmacokinetics	
	(2)	Write modified Noyes. Whitney equation.	
	(3)	Comment: Benzodiazepines like diazepam, oxazepam and nitrazepam are having less rate of absorption.	
	(4)	Define: Pharmacokinetics. Enlist Pharmacodynamics Parameters.	
	(5)	Classify Methods for analysis of Pharmacokinetic data.	
	(6)	Comment: Phase II reactions are better known as detoxification reactions.	
	(7)	What is Non compartmental Analysis?	
	(8)	Enlist application of Non compartment Analysis.	
	(9)	What is pharmaceutical equivalence?	
	(10)	What is the difference between relative and absolute bioavailability?	
2	Answer the following questions: (ANY TWO)		20
	(1)	Enlist factors affecting drug absorption. Write note on factors - dosage form characteristics and pharmaceutical ingredients.	
	(2)	Explain about One compartment open model for Intravenous Injection (Bolus) with all parameters.	

of Km & Vmax.

(3) Write Michaelis Menten equation including estimation

- 3 Answer the following questions: (ANY SIX)
 - 1) Enlist mechanism of drug absorption, give a detailed note on passive diffusion.
 - (2) Define: Dissolution. Explain diffusion layer model.
 - (3) Explain about Two compartment open model for Extravascular admission.
 - (4) Enlist physiological berries to drug distribution. Explain with figure placental barrier.
 - (5) What are chemical factors affect drug metabolism?
 - (6) Explain different methods for enhancement of bioavailability
 - (7) Write a note on renal excretion of drug.
 - (8) Describe the Loading dose.

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