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ADMISSION NUMBER

School of Medical and Allied Sciences

Bachelor of Pharmacy Semester End Examination - Aug 2024

Duration : 180 Minutes

Max Marks: 75

Sem VI - BPHT6004 - Biopharmaceutics and Pharmacokinetics

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

1)	Explain the formula of extraction ratio.	K2(2)
2)	Explain the equation of lineweaver-burk plot.	K2(2)
3)	List the definition of dose size.	K1(2)
4)	Explain the definition of Biotransformation.	K2(2)
5)	Define the central compartment model.	K1(2)
6)	Explain the term Dosage Regimen.	K2(2)
7)	List down the definition of clinical pharmacokinetics.	K1(2)
8)	Explain the objectives of bioavailability.	K2(2)
9)	List the definition of dose frequency.	K1(2)
10)	Define absorption.	K1(2)
11)	Define the term "elimination half-life" and explain its significance in pharmacokinetics.	K3(5)
	OR	
	Organize the following data into a table and calculate the apparent volume of distribution for each scenario	K3(5)
12)	Build a brief note on factors based on fick's first law of diffusion.	K3(5)
13)	Distinguish the factors affecting G.I. absorption of drugs.	K4(5)
14)	Identify the elimination phase.	K3(5)
15)	Analyze the brief note on glomerular filteration of renal excretion of drug.	K4(5)
16)	Distinguish the factors affecting G.I. absorption of drugs.	K4(5)
	OR	
	Compare active tubular secretion and tubular reabsorption of renal excretion of drug.	K4(5)
17)	Simplify the eqauation of michaelis menter.	K4(5)
18)	Build up the loading and maintenance doses.	K6(10

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19) Explain the classification the physiological models. K5(10)

OR

Explain the maintenance of drug with in therapeutic range.

K5(10)

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