GALGOTIAS UNIVERSITY

ADMISSION NUMBER

School of Medical and Allied Sciences

Master of Pharmacy in Pharmaceutics
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 75

Sem II - MPH202T - Advanced 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)	Infer about the term lipophillic and hydrophillic drugs.	K2(2)
2)	Outline on the term Clinical Pharmacokinetic.	K2(2)
3)	Define the term absorption.	K1(2)
4)	Infer about the term Symport and Antiport transport of drug.	K2(2)
5)	Define the special concerns in bioavailability and bioequivalence studies?	K1(2)
6)	Outline the compendial and alternative methods of in vitro drug dissolution.	K2(2)
7)	Define the physicochemical factors of the drug affecting dissolution.	K1(2)
8)	Outline on the different phases of drug administration.	K2(2)
9)	Define the term bioavailability and elimination.	K1(2)
10)	Define the experimental protocol and analysis of data for bioequivalence studies for conventional dosage form.	K1(2)
11)	Develop a note on active transport of drug molecules.	K3(5)
	OR	
	Develop a note on Polymorphism and Amorphism character of drug molecule.	K3(5)
12)	Develop a note on application of Noyes-Whitney equation.	K3(5)
13)	Analyze the pharmacokinetic of novel drug delivery systems using examples.	K4(5)
14)	Develop a note on Partition coefficient and Handersen-Hasalblach equation..	K3(5)
15)	Analyze the different classes of reaction kinetics and give detail on zero order reaction kinetic.	K4(5)
16)	Examine through the flow chart, the methods for analysis of	K4(5)

pharmacokinetic data.

OR

Examine the term drug metabolizing enzymes. K4(5)

17) Analyze the pharmacokinetic of biotechnological products. K4(5)

18) Develop a note on drug interaction and its significance. K6(10)

19) Justify the various methods for determining absorption of drugs in-vitro, in-situ and in-vivo and their their correlation with examples. K5(10)

OR

Appraise the term Pharmacokinetic models and explain in detail any one of models. K5(10)