Question Paper

Exam Date & Time: 16-May-2023 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Clinical Pharmacokinetics and Therapeutic Drug Monitoring [PPR-MPP203T -S3]

Marks: 75 Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x = 50 marks)

1)	Explain about (i) the conversion of IV to oral dosing and (ii) the factors influencing drug elimination	(10)		
2)	Explain the mechanisms of enzyme induction and inhibition	(10)		
3)	Explain the fundamentals of population pharmacokinetic model and describe the process of building covariate models	(10)		
4)	Explain in detail various methods of Pharmacokinetic and Pharmacodynamic correlation	(10)		
5)	Explain TDM of Vancomycin, Gentamycin and Meropenem	(10)		
SECTION - B				
Answer all the questions.				

Answer the following (5 marks x = 25 marks)

6)	Describe compartment models and their applications	(5)
7)	Describe Bayesian theory and explain its application with one example	(5)
8)	Enlist the differences between traditional and population pharmacokinetics	(5)
9)	Explain the impact of hepatic failure on ADME of drugs and approach for dosage adjustment in hepatic failure	(5)
10)	Describe in detail about the protocol for TDM	(5)

