Question Paper

Exam Date & Time: 16-Jun-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring [PPR 5.3T-S3]

Marks: 70 Duration: 180 mins.

	Section A	
Answer all the questions.		
Long Answer Questions (3 x 10 marks = 30 marks)		
1)	Explain the TDM of any four anti-epileptic drugs	(10)
2)	Explain genetic polymorphism of drug metabolism, drug transporters and targets	(10)
3)	Explain extra-corporeal method for drug removal with types and factors influencing such removal	(10)
	Section B	
Answer all the questions.		
Short Answer Questions (6 x 5 marks = 30 marks)		
4)	Explain the concepts of TDM	(5)
5)	Describe the types of enzyme inhibition	(5)
6)	Describe the principles of determining dose and dosing interval	(5)
7)	Explain the dosage adjustment in elderly patients	(5)
8)	Explain the adaptive methods of dosage adjustment	(5)
9)	Discuss about the nomograms, their applications with example	(5)
Section C		
Answer all the questions.		
Give Reasons for the Following (5 x 2 marks = 10 marks)		
10)	TDM is useful to assess medication adherence	(2)
11)	Warfarin has many distribution interactions	(2)
12)	Effect of auto-induction of carbamazepine cannot be seen immediately	(2)
13)	Dosage adjustment in hepatic failure is not straight forward as in renal failure	(2)
14)	In population pharmacokinetic studies, variability will be actively explored	(2)

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