Question Paper

Exam Date & Time: 19-Apr-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

IV Year Pharm D/ I Pharm D Post Baccalaureate University Examination April 2023

Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring [PPR 5.3T-S1]

Marks: 70 Duration: 180 mins.

A: Long Answer Questions

Draw diagrams wherever necessary 1) Explain population pharmacokinetics with its definition, advantages, concept and its data analytical

method and applications

Explain the concept of Bayesian theory with examples in diagnosis and dosage adjustment (10)

scenarios
3)

(10) Explain the mechanisms enzyme induction and inhibition

B: Short Answer Questions

Answer all the questions.

2)

Answer all the questions.

4)	Discuss the TDM of Carbamazepine and Digoxin	(5)
5)	Explain the protocol for TDM	(5)
6)	Explain IV to oral conversion methods with examples	(5)
7)	Explain the concept of PKPD correlation and mention about types of PKPD correlation	(5)
8)	Explain about genetic polymorphism of CYP2D6 and NAT2 enzymes	(5)
9)	Explain the dosage adjustment in paediatric patients	(5)

C. Give Reasons for the Following

Answer all the questions.

10)	TDM samples are generally collected in trough	(2)
11)	Antacids co-administration might result in drug interactions	(2)
12)	IV to oral conversion is contraindicated in certain patients	(2)
13)	Maintenance dose calculation needs the value of clearance	(2)
14)	Lithium dosing is related to hydration status of patients	(2)

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