

Question Paper

Exam Date & Time: 17-May-2024 (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 -S1]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Discuss the advantages of IV to Oral conversion and the methods for performing this conversion (10)
- 2) Describe about enzyme inhibition its impact and discuss about various mechanisms of induction (10)
- 3) Describe population pharmacokinetics and discuss the differences between traditional and population pharmacokinetics and methods of POPK analysis (10)
- 4) Explain in details about the types of PKPD correlation with appropriate examples wherever possible (10)
- 5) Explain TDM of Lithium, Cyclosporine and Gentamicin (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain in detail about the mamillary models with illustrations and the model assumptions (5)
- 7) Explain the mechanisms of enzyme inhibition (5)
- 8) Explain the adaptive method or doing with feedback (5)
- 9) Explain drug dosing in paediatrics (5)
- 10) Describe in detail about the indications and protocol for TDM (5)

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