

Exam Date & Time: 11-Sep-2021 (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]

Marks: 75**Duration: 180 mins.**

SECTION - A

Answer all the questions.

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

- 1) Discuss the mechanisms of enzyme induction and give examples wherever possible (10)
- 2) Discuss about the population pharmacokinetics and non-linear mixed effects model (10)
- 3) Discuss about the dosage adjustment in Paediatrics and Geriatrics (10)
- 4) Discuss the TDM of any two cardiovascular and two anti-epileptic drugs (10)
- 5) Discuss the TDM of lithium, amikacin and tacrolimus (10)

SECTION - B

Answer all the questions.

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

- 6) Describe the Bayesian theory and its application for dosage adjustment (5)
- 7) Describe dosing nomograms and their applications (5)
- 8) Describe dosage adjustment in renal failure (5)
- 9) Describe the indications and protocols for therapeutic drug monitoring (5)
- 10) Describe the TDM of cyclosporin during organ transplant management (5)

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