

Exam Date & Time: 18-Jul-2022 (10:00 AM - 01:00 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) Explain factors affecting absorption of drugs (10)
- 2) Explain different types of PKPD correlation (10)
- 3) Explain population pharmacokinetic model and describe the differences between traditional and population pharmacokinetic studies (10)
- 4) Explain drug dosing in pediatrics and obesity (10)
- 5) Explain TDM Digoxin, Phenytoin and lithium (10)

### SECTION - B

**Answer all the questions.**

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

- 6) Explain open one compartment model for IV bolus administration (5)
- 7) Describe pharmacokinetic interactions (5)
- 8) Describe model validation methods (5)
- 9) Describe extracorporeal elimination of drugs (5)
- 10) Explain the indications and protocol for TDM (5)

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