

**Second Semester M. Pharm Degree Supplementary Examinations
August 2021**

M.Pharm (Pharmacy Practice)

**Paper III: Clinical Pharmacokinetics and Therapeutic Drug monitoring
(MPP 203T)**

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. What is Therapeutic Drug Monitoring (TDM). Explain the indication and protocol for TDM. Add notes on the TDM for phenytoin.
2. What is designing of dosage regimen. Explain the dose and dose interval. Add notes on methods used in the designing of dosage regimen.
3. What is non linear mixed effects modeling. Explain the model and model assumptions. Add notes on this model validation

Short Notes

(9x5=45)

4. Calculation of loading and maintenance dose.
5. What is drug interaction. Explain the pharmacokinetics of drug interaction.
6. Genetic polymorphism in drug transport and drug targets.
7. Analysis of population pharmacokinetics.
8. Pharmacometrics software.
9. Drug dosing in obese patients.
10. Extracorporeal removal of drugs.
11. Conversion of intravenous to oral dosing.
12. Renal and non-renal clearance
