

QP CODE: 213332

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
November 2025**

M.Pharm (Pharmacy Practice)

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

(Common for 2019 and 2024 Scheme)

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. Explain the dosage adjustment in paediatric and obese patients.
2. Describe Pharmacokinetic/Pharmacodynamic (PKPD) correlation in drug therapy.
3. Explain the mechanisms enzyme induction and inhibition.

Short Notes

(9x5=45)

4. Discuss about population pharmacokinetics and briefly describe the method used for this modelling.
5. Discuss the TDM of Carbamazepine and Digoxin.
6. Explain the principles of Bayesian theory with an example.
7. Explain the assessment of hepatic failure and dosage adjustment in hepatic failure.
8. Briefly explain genetic polymorphism in drug metabolism.
9. Explain the role of nomograms and tabulations in dosage regimen design
10. Explain the interactions of drugs that occur during distribution phase.
11. Explain the protocol for TDM.
12. Explain the differences between Conventional and Population pharmacokinetics.
