

QP CODE: 213332

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
February 2026**

**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 genetic polymorphism of drug metabolism, drug transporters and targets.
2. Explain extra-corporeal method for drug removal with types and factors influencing such removal.
3. Explain the compartmental and non-compartmental models in clinical pharmacokinetics.

Short Notes

(9x5=45)

4. Explain the adaptive methods of dosage adjustment.
5. Describe the types of enzyme inhibition.
6. Explain genetic polymorphism in cytochrome P450 isozymes.
7. Discuss about the nomograms, their applications with example.
8. Describe the principles of determining dose and dosing interval.
9. Explain the dosage adjustment in elderly patients.
10. Explain the concepts of TDM.
11. Discuss briefly on pharmacokinetic drug interactions.
12. Explain the significance of age and weight of the patients in dosage adjustment.
