Second Semester M. Pharm Degree Regular/Supplementary Examinations November 2024

M.Pharm (Pharmacy Practice)
Paper III: Clinical Pharmacokinetics and Therapeutic Drug monitoring (MPP 203T)
(Common for 2017 and 2019 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. Define Therapeutic Drug Monitoring (TDM). Explain the TDM for digoxin and cyclosporine.

2. Explain the genetic polymorphism in drug transport and drug targets.

3. Explain the different methods of estimation and determinants of bioavailability.

Short Notes   **(9x5=45)**

4. Conversion from intravenous to oral dosing.

5. Bayesian theory.

6. Simulation of dosing regimen.

7. Drug dosing renal failure.

8. Models of hepatic clearance.

9. Calculation of loading dose.

10. Pharmacometrics software.

11. Individualization of drug dosage regimen.

12. Modeling random effects.

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