

QP CODE: 213332

Reg. No:.....

Second Semester M.Pharm Degree Examinations August 2018

M.Pharm (Pharmacy Practice)

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

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Define bioavailability. Explain the estimation and determinants of bioavailability. Add notes on bioavailability variation and its impact on patient outcome.
2. What is population pharmacokinetics. Explain the general methods and the analysis of population pharmacokinetics.
3. What is altered pharmacokinetics. Explain the drug dosing in special population

Short Notes

(9x5=45)

4. Briefly explain the concept of compartment model.
5. Nomograms and tabulations.
6. Genetic polymorphism in drug metabolism.
7. Drug dosing in pediatrics.
8. What is testing of model assumption. Discuss the violation of model assumption.
9. What is TDM. Briefly explain the protocol for TDM.
10. Inhibition and induction of drug metabolism.
11. What is simulation of dosing regimens and dosing recommendations
12. TDM for drug digoxin
