

**QP CODE: 213332**

**Reg. No:.....**

**Second Semester M. Pharm Degree Regular/Supplementary Examinations  
May 2022**

**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. Explain the designing of dosage regimens and determination of dose and dosing intervals
2. Define pharmacokinetics of drug interactions and write about inhibition and induction of drug metabolism
3. What is altered pharmacokinetics and drug dosing in the renal failure and extracorporeal removal of drugs

**Short Notes**

**(9x5=45)**

4. Nomograms and tabulations in designing dosage regimen
5. Inhibition of biliary excretion.
6. Cytochrome P-450 isoenzymes.
7. Analysis of population pharmacokinetic data.
8. Non linier mixed effects modeling.
9. Pharmacometrics software.
10. Drug dosing in the obese patients.
11. Therapeutic drug monitoring of drugs used in seizure disorders.
12. Mixture model

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