

Q.P. Code: 203340

Reg. no.:

**Second Pharm D Post Baccalaureate Degree Regular/Supplementary
Examinations October 2021**

Paper III - Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring

Time: 3 Hours

Total Marks: 70

- *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. Explain the various indications of TDM. Give in detail the TDM of any one drug.
2. Explain in detail any two methods of determining population pharmacokinetic data.
3. Define pharmacokinetic drug interactions with suitable examples. Explain in detail the enzyme induction and enzyme inhibition on drug interactions with examples.

Short notes:

(8x5=40)

4. Hemodialysis
5. Explain bayesian theory in detail
6. Explain the effect of liver diseases on pharmacokinetics of drugs.
7. Explain the principles and significance of converting IV dose to oral therapy.
8. Relationship between elimination half-life and duration of activity of drugs.
9. Explain the role of genetic polymorphism on drug metabolism with examples
10. Dosage adjustment for uremic patient
11. List out the various variable factors in individualizing drug dosage regimen and explain.
