

Q.P. Code: 203340

Reg. no.:

**Second Pharm D Post Baccalaureate Degree Supplementary
Examinations December 2024**

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. Write in detail about the practical considerations for conducting therapeutic drug monitoring.
2. Define pharmacogenetics and explain the consequences of genetic polymorphism of drug metabolizing enzyme with suitable examples.
3. What is meant by pharmacokinetic and pharmacodynamic correlation in drug therapy

Short notes:

(8x5=40)

4. Pharmacokinetic drug interactions
5. Altered pharmacokinetics in geriatrics
6. Write a note on TDM of drug used in the seizure disorders.
7. Write a note on biliary excretion and its inhibition.
8. How to determine the dose and dosing interval of drug administered through intravenous route of administration.
9. Population pharmacokinetics using NONMEM
10. Describe the TDM procedure for Cyclosporine.
11. Plot a graph for plasma drug concentration Vs time profile and explain the key of its effectiveness.
