

Q.P. Code: 203340

Reg. no.:

**Second Pharm D Post Baccalaureate Degree Supplementary
Examinations February 2022**

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. Mention the process of adaptive dosing with feedback and describe the advantages of this method over conventional therapeutic drug monitoring
2. Explain methods for analysis of population pharmacokinetic data.
3. Explain the pharmacokinetic factors that govern dosage adjustment in pediatric and elderly patients.

Short notes:

(8x5=40)

4. Explain the mechanisms of enzyme induction.
5. Explain the factors affecting dialyzability of a drug.
6. Describe the salient features that differentiates conventional and population pharmacokinetics.
7. Explain the process of determination of dose and dosing interval
8. Describe TDM of carbamazepine and valproate
9. Describe the soft link model for PK/PD correlation.
10. Explain the principles for dosage adjustment in hepatic failure
11. Describe genetic polymorphism CYP2C9 & CYP2D6.
