

Q.P. Code: 203340

Reg. no.:

**Second Pharm D Post Baccalaureate Degree Supplementary
Examinations December 2019**

Paper III - Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essays: (3x10=30)

1. Explain in detail about therapeutic drug monitoring procedure for digoxin.
2. Explain in detail about the altered pharmacokinetics in hepatic failure.
3. Explain the various factors to be considered while designing a dosage regimen.

Short notes: (8x5=40)

4. How to convert intravenous dosing to oral dosing.
5. Pharmacokinetic and pharmacodynamic correlation in drug therapy.
6. Drug-drug interactions.
7. How will you adjust the dosage regimen of a drug in case of renal failure.
8. Procedure to calculate creatinine clearance.
9. Population pharmacokinetics using NONMEM.
10. Various methods of drug dosage adjustments in pediatric patients.
11. Genetic polymorphism in drug transport and drug targets.
