

Q.P. Code: 503326

Reg. No.:

Fifth Year Pharm D Degree Examinations June 2019

Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(3x10=30)

1. Explain the process of extracorporeal removal of drugs.
2. Mention the process of adaptive dosing with feedback and describe the advantages of this method over conventional therapeutic drug monitoring
3. Explain direct and indirect link models for pharmacokinetic and pharmacodynamic correlation.

Short notes:

(8x5=40)

4. Explain nonlinear mixed effect model for population pharmacokinetic data analysis
5. Explain dosage adjustment in renal failure.
6. Explain absorption interactions with examples
7. Explain TDM of lithium and theophylline.
8. Explain the genetic polymorphism in Drug Transport and Drug Targets.
9. Explain drug dosage adjustment in pediatric patients
10. Explain dosage regimen design
11. Explain the effects of enzyme induction and enzyme inhibition
