

Q.P. Code: 203340

Reg. no.:

Second Pharm D Post Baccalaureate Degree Examinations June 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. Define nomograms. Explain the indications of it in pharmacokinetic studies. Add a note on its advantages and disadvantages.
2. Explain in detail the various methods for estimating dosage regimens in uremic patients
3. Explain the bayesian theory and its applications with suitable examples

Short notes:

(8x5=40)

4. Various methods of determining creatinine clearance
5. Explain the genetic polymorphism in CYP2D6 and 2C9 iso-enzymes
6. Explain in detail the TDM of digoxin
7. Explain in detail the importance of enzyme induction and inhibition in drug interactions by providing suitable examples
8. Explain the NONMEM method of analyzing population pharmacokinetic data
9. The various methods of determining glomerular filtration rate
10. Explain conversion from intravenous infusion to oral dosing
11. Explain the extracorporeal removal of drugs.
