

Q.P. Code: 203340

Reg. no.:

Second Pharm D Post Baccalaureate Degree Examinations, July 2014

Paper III - Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Define therapeutic drug monitoring. Discuss various steps and pharmacokinetic evaluations in therapeutic drug monitoring process
2. Classify and explain pharmacokinetic drug-drug interactions with suitable examples
3. What are the various methods to estimate renal function. Discuss the clinical significance of drug dosage adjustment in renal impairment

Short notes:

(8x5=40)

4. Mention therapeutic ranges and toxic symptoms of Lithium, Amikacin, Valproic acid, Theophyllin and Digoxin
5. Individualization of dosage regimen with respect to age
6. Hemodialysis
7. What are drug metabolism inhibitors. Explain its clinical significance with suitable examples
8. Population pharmacokinetics and its importance
9. What are cytochrome P-450 isoenzymes. Add a note on genetic polymorphism in drug metabolism
10. Effects of liver disease on drug metabolism
11. Explain the basic principles of clinical pharmacokinetics
