

**Q.P. Code: 203340**

**Reg. no.: .....**

**Second Pharm D Post Baccalaureate Degree Examinations June 2018**

**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. Describe in detail about the altered pharmacokinetics in geriatric patient population.
2. Explain the main categories of pharmacokinetic drug interactions.
3. Describe in detail about the practical correlations for conducting therapeutic drug monitoring

**Short notes:**

**(8x5=40)**

4. How to assess hepatic failure in patients.
5. Explain bayesian theory.
6. Explain the therapeutic drug monitoring procedure for cyclosporine.
7. Explain genetic polymorphism in drug metabolism with suitable examples.
8. Explain the factors to be considered while designing a dosage regimen.
9. Pharmacokinetic and pharmacodynamic correlation in drug therapy.
10. Mention ideal characteristics of markers of glomerular filtration rate and add a note on various endogenous markers.
11. Define and explain the applications of clinical pharmacokinetic principles.

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