

**Q.P. Code: 503326**

**Reg. No.: .....**

**Fifth Year Pharm D Degree Supplementary Examinations  
December 2018**

**Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essays:**

**(3x10=30)**

1. Enumerate and discuss the differences between pharmacokinetic and pharmacodynamic drug interactions.
2. Discuss about the protocol for therapeutic drug monitoring.
3. Explain the altered pharmacokinetics in renal failure.

**Short notes:**

**(8x5=40)**

4. Explain how to convert intravenous dosing to oral dosing.
5. Explain Bayesian theory.
6. What are the factors to be considered while designing a dosage regimen.
7. Which drug requires therapeutic drug monitoring. Give examples with respect to different disease conditions.
8. Plot a graph for plasma drug concentration vs time profile. Explain the key of the effectiveness.
9. Pharmacokinetic and pharmacodynamic correlation.
10. Discuss about genetic polymorphism in drug metabolism with suitable examples.
11. Write about biliary excretion of drugs and the consequences of its inhibition

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