

**Q.P. Code: 503326**

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

Fifth Year Pharm D Degree Examinations, June 2016

**Clinical Pharmacokinetics and pharmacotherapeutic Drug Monitoring**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essay:**

**(3x10=30)**

1. Explain various types of pharmacokinetic interactions with examples.
2. Explain methods for analysis of population pharmacokinetic data.
3. Explain the genetic polymorphism in drug transporters and drug targets

**Short notes:**

**(8x5=40)**

4. Explain the mechanisms of enzyme inhibition.
5. Write a note on inhibition and induction of drug metabolism.
6. Explain drug dosing in obese patients.
7. Explain dosage adjustment in renal failure.
8. Explain the process of determination of dose and dosing interval
9. Describe TDM of carbamazepine and valproate
10. Explain the process of IV to oral conversion
11. Describe genetic polymorphism CYP2C9 & CYP2D6

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