

**Q.P. Code: 106340**

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

First Pharm D Post Baccalaureate Degree Examinations, August 2015

**Paper VI – Biopharmaceutics & Pharmacokinetics**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essay:**

**(3x10=30)**

1. Explain the factors affecting drug distribution.
2. Explain the principal processes of urinary elimination of drugs.
3. Discuss in detail about the protocol for the conduct of bio-availability study.

**Short notes:**

**(8x5=40)**

4. Describe passive diffusion in drug absorption.
5. Define pharmacokinetic models and mention its uses
6. Discuss about patient related factors affecting protein binding of drugs.
7. Describe the role of active tubular secretion in drug elimination.
8. Explain the factors affecting gastric emptying rate
9. Explain latin square cross-over design used in bioequivalence study.
10. Explain the concept of apparent volume of distribution.
11. Describe drug interactions resulting in altered drug absorption.

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