

**Q.P. Code: 106340**

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

**First Pharm D Post Baccalaureate Degree Examinations July 2018**

**Paper VI – Biopharmaceutics & Pharmacokinetics**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essays:**

**(3x10=30)**

1. What are the dosage forms related factors affecting drug absorption.
2. Explain the volume of distribution with its significance.
3. How to determine the pharmacokinetic parameters in one component open model after repetitive injection method

**Short notes:**

**(8x5=40)**

4. Add a note on statistical moment theory.
5. How to determine bioavailability through urinary excretion studies.
6. The concept involved in different compartment models.
7. Mention the different types of clearance.
8. Differentiate phase I and phase II biotransformation reactions.
9. Describe the method of residuals in the determination of absorption rate constant in two compartment open model extra vascular administration
10. State any two study design followed in bioequivalence studies
11. Classify biopharmaceutical classification system with examples

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