

**Q.P. Code: 106340**

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

First Pharm D Post Baccalaureate Degree Examinations, August 2014

**Paper VI – Biopharmaceutics & Pharmacokinetics**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essay:**

**(3x10=30)**

1. Explain patient related factors affecting drug absorption
2. Explain two compartment open model for IV bolus administration.
3. Explain causes of nonlinearity of pharmacokinetics and describe Michaelis-Menten equation for non-linear pharmacokinetics.

**Short notes:**

**(8x5=40)**

4. Explain the tissue binding of drugs.
5. Explain the determination of renal function
6. Compartment models
7. Describe pulmonary and salivary excretion of drugs.
8. Describe the methods for assessment of bioavailability.
9. Describe open one compartment model for IV infusion administration.
10. Describe carrier mediated transport of drugs.
11. Explain physiologic model of pharmacokinetics.

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