

**Q.P. Code: 405326**

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

Fourth Year Pharm D Degree Examinations, June 2016

**Biopharmaceutics & Pharmacokinetics**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essay:**

**(3x10=30)**

1. Describe in detail the factors affecting drug elimination
2. Explain kinetics of repetitive dose IV bolus in one compartment open model
3. Explain bio-availability study protocol in detail

**Short notes:**

**(8x5=40)**

4. Tissue binding
5. First pass metabolism
6. Statistical Moment theory
7. One compartment open model for IV infusion
8. Michaelis-Menten kinetics
9. Active transport
10. Non-renal drug elimination
11. Gastric Emptying

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