

**Q.P. Code: 405326**

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

**Fourth Year Pharm D Degree Examinations July 2019**

**Biopharmaceutics & Pharmacokinetics**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essays:**

**(3x10=30)**

1. Explain plasma concentration-time profile of a drug with illustration
2. Explain the principal processes of urinary elimination of drugs.
3. Explain patient related factors affecting drug absorption

**Short notes:**

**(8x5=40)**

4. Explain the Michaelis-Menten pharmacokinetics.
5. Discuss on the binding sites of human serum albumin.
6. Explain the kinetics of drug absorption
7. Describe drug interactions resulting from altered protein binding.
8. Explain open one compartment model for repeated dose IV bolus administration.
9. Explain the concept of clearance
10. Describe compartment models with their advantages and disadvantages.
11. Describe pulmonary and salivary excretion of drugs

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