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**B. Pharmacy (Seventh Semester) Examination,  
April-May 2018**

(New Scheme)

(Pharmacy Branch)

**PHARMACEUTICS-XI****(Biopharmaceutics & Pharmacokinetics)***Time Allowed : Three hours**Maximum Marks : 70*

*Note : Attempt any five questions. All questions carry equal marks.*

1. (a) Define the term Biopharmaceutics. Discuss in detail about factors influencing absorption of drugs. 7
- (b) Explain how drugs cross biological barrier. 7

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2. What is Compartment Model? Derive the mathematical expression for drug plasma concentration calculation for one compartment I.V. bolus administration of a drug. 14
3. Describe Bioavailability. Write in detail of regulatory requirements for condition of bioequivalent studies. 14
4. What are non linear pharmacokinetic? Explain the concept of enzyme kinetic with the help of Michaelis Menten equation. 14
5. Explain Loo-Regimen method to determine the absorption rate constant with their application and limitations. 14
6. Write short notes on : (any two) 2×7
  - (a) Pharmacokinetic drug interaction
  - (b) Method of Residuals
  - (c) Measures of Bioavailability