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**B. Pharmacy (Seventh Semester) Examination,
Nov.-Dec. 2019**

(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. Define Biopharmaceutics and Pharmacokinetics. Discuss the mechanisms of drug passage through biological barrier. 4+10

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2. What is compartment model? Derive and discuss one compartment open model of intravenous bolus administration. 2+12

3. (a) Define Bioavailability. What are the objectives of bioavailability studies? 7
 (b) Write method for determination of K_E from urinary excretion data. 7

4. Write note on Non-linear pharmacokinetics with special reference to Michaelis-Menten Equation. 14

5. (a) Discuss various factors influencing drug absorption. 7
 (b) Regulatory requirement for conduction of bioequivalence studies. 7

6. Discuss Wagner-Nelson methods for estimation of absorption constants with their application and limitation. 14

7. Write short notes on any two of the following : 2×7=14
 (i) Area under the curve and C_{max}
 (ii) Loo-Reigelman method

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- (iii) Pharmacokinetic drug interaction
- (iv) Hepatic clearance and Biliary excretion

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