

**Annual Examination 2022**  
**B. Pharm 4<sup>th</sup> Year**  
**Bio Pharmaceutics and Pharmacokinetics**

**Time: 3Hrs**

**Max. Marks-80**

**Note: Attempt any five questions:**

1. Explain the Pharmacokinetics factors that influence GI absorption of a drug
2. Why is distribution of a drug not uniform throughout the body explain the different factors influencing drug distribution
3. Write a note on:
  - (A) PH partition hypothesis and Volume of distribution
  - (B) Bioavailability and tissue toxicity
4. What are the various non renal routes of drug excretion?
5. Define ADME write in detail factors affecting absorption of a drug
6. Define drug dissolution? discuss the factors affecting drug dissolution
7. (A) discuss the factors affecting bioavailability of a drug  
(B) discuss the application of Pharmacokinetics principles
8. Write a note on:
  - (A) Bioavailability
  - (B) C<sub>max</sub>
  - (C) T<sub>max</sub>
  - (D) AUC
9. What do you mean by compartment modeling discuss in detail single compartment model
10. Write note on:
  - (A) International regulation regarding bioavailability and bioequivalence studies?
  - (B) In-vivo In vitro correlation