

Wecker: Brody's Human Pharmacology, 5th Edition

Chapter 02: Pharmacokinetics: Absorption, Distribution, Metabolism, and Elimination

Test Bank

Multiple Choice

1. Which of the following features of a drug would enhance its uptake in the GI tract?

- A. Polar
- B. Water soluble
- C. Ionized
- D. Low molecular weight
- E. Low concentration gradient

ANS: D. Of the options given, only a low molecular weight will increase uptake of a drug by the GI tract.

2. Which organ contains predominantly tight intercellular junctions, thereby restricting its uptake of drugs?

- A. Kidney
- B. Liver
- C. Brain
- D. Heart
- E. Lungs

ANS: C. The brain contains tight intercellular junctions, forming the "blood-brain barrier."

3. Drugs commonly undergo all of the following types of metabolism in the liver EXCEPT FOR:

- A. Polymerization
- B. Conjugation
- C. Oxidation
- D. Reduction
- E. Hydrolysis

ANS: A. Polymerization is not a common process by which drugs are hepatically metabolized.

4. Which organ contains predominantly tight intercellular junctions, thereby restricting its uptake of drugs?

- A. Kidney

- B. Liver
- C. Brain
- D. Heart
- E. Lungs

ANS: C. The brain contains tight intercellular junctions, forming the “blood-brain barrier.”

5. Drugs commonly undergo all of the following types of metabolism in the liver EXCEPT FOR:

- A. Polymerization
- B. Conjugation
- C. Oxidation
- D. Reduction
- E. Hydrolysis

ANS: A. Polymerization is not a common process by which drugs are hepatically metabolized.