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Chapter 2. Pharmacokinetics I. Drug Administration, Absorption, and Distribution

Multiple Choice
1. All of the following are parenteral routes of drug administration EXCEPT the route. A. oral B. inhalation C. injection D. topical E. transdermal Ans: A
2. The effect occurs when drugs are transported initially to the liver where a significant amount of the drug may be metabolized and destroyed before the drug reaches its primary site of action. A. malabsorptive B. first pass C. Bohr D. bioequivalence E. pharmacodynamic Ans: B
3. Iontophoresis, phonophoresis, and medicated patches all use the route to administer drugs. A. oral B. inhalation C. injection D. transdermal E. rectal Ans: D
 4. This first pass effect is of particular concern when drugs are administered A. topically B. by intravenous injection C. by subcutaneous injection D. by inhalation E. orally
D. transdermal E. rectal Ans: D 4. This first pass effect is of particular concern when drugs are administered A. topically B. by intravenous injection C. by subcutaneous injection D. by inhalation

5. The extent to which a drug reaches the systemic circulation is referred to as A. bioequivalence B. biotransformation C. bioavailability D. biodistribution E. last pass metabolism Ans: C 6. When crossing cell membranes, drugs will diffuse more readily through the lipid layer if they are A. non-lipid soluble B. in a neutral, nonionized form C. in a charged, ionized form D. large proteins Ans: B 7. Osmosis refers to the special case of diffusion where the diffusing substance is A. a lipid soluble drug B. a non-lipid soluble drug C. a protein D. a carbohydrate E. water Ans: E 8. Carrier specificity, expernditure of energy, and ability to transport substances against a concentration gradient are all characteristics of A. simple, passive diffusion B. facilitated diffusion C. active transport D. endocytosis E. exocytosis Ans: C 9. A drug that has a volume of distribution of approximately 42 L will typically be A. bound extensively to plasma proteins

B. retained in the bloodstreamC. concentrated in the tissuesD. stored in the liver and kidneys

E. distributed uniformly throughout all of the body fluids

Ans: E

- 10. The primary site for drug storage in the body is
- A. muscle
- B. bone
- C. skin
- D. adipose tissue
- E. the brain

Ans: D

- 11. Drug developers are exploring nanotechnology (i.e., the use of very small particles with specific physical properties) as a way to
- A. target and deliver drugs to specific tissues within the body
- B. facilitate drug absorption from the GI tract
- C. enable drugs to cross the blood brain barrier more easily
- D. all the above
- E. none of the above

Ans: D.