Pharmacology in Rehabilitation 4th Edition Ciccone Test Bank

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

A) B) C) D)	All of the following are parenteral routes of drug administration EXCEPT the route. oral inhalation injection topical transdermal
2.	The effect occurs when drugs are initially transported 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
	first-pass
C)	Bohr
	bioequivalence
E)	pharmacodynamic
3.	Iontophoresis, phonophoresis, and medicated patches all use the route to administer drugs.
A)	oral
B)	inhalation
	injection
	transdermal
E)	rectal
	This first-pass effect is of particular concern when drugs are administered: topically.
	intravenously.
	subcutaneously.
D)	by inhalation.
E)	orally.
	The extent to which a drug reaches the systemic circulation is referred to as: bioequivalence.
	biotransformation.
,	bioavailability.
	biodistribution.
,	last-pass metabolism.
6.	When crossing cell membranes, drugs will diffuse more readily through the lipid layer if they
	are:
	nonlipid soluble.
	in a neutral, nonionized form.
	in a charged, ionized form.
	large proteins.
E)	none of the above

- 7. Osmosis refers to the special case of diffusion where the diffusing substance is:
- A) a lipid-soluble drug.
- B) a nonlipid-soluble drug.
- C) a protein.
- D) a carbohydrate.
- E) water.
- 8. Carrier specificity, expenditure 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.
- 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 bloodstream.
- C) concentrated in the tissues.
- D) stored in the liver and kidneys.
- E) uniformly distributed throughout all of the body fluids.
- 10. The primary site for drug storage in the body is:
- A) muscle.
- B) bone.
- C) skin.
- D) adipose tissue.
- E) the brain.

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Answer Key

- 1. A
- 2. B
- 3. D
- 4. E
- 5. C
- 6. B
- 7. E
- 8. C
- 9. E
- 10. D