

***Pharmacology in Rehabilitation 5th edition Ciccone
Test Bank***

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Chapter 02

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 1. 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 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.
- malabsorptive
 - first pass
 - Bohr
 - bioequivalence
 - pharmacodynamic
- ____ 3. Iontophoresis, phonophoresis, and medicated patches all use the ____ route to administer drugs.
- oral
 - inhalation
 - injection
 - transdermal
 - rectal
- ____ 4. This first pass effect is of particular concern when drugs are administered
- topically
 - by intravenous injection
 - by subcutaneous injection
 - by inhalation
 - orally
- ____ 5. 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
- non-lipid soluble
 - in a neutral, nonionized form
 - in a charged, ionized form
 - large proteins
- ____ 7. Osmosis refers to the special case of diffusion where the diffusing substance is
- a lipid soluble drug
 - a nonlipid soluble drug
 - 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. distributed uniformly 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
- _____ 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

Chapter 02

Answer Section

MULTIPLE CHOICE

- | | |
|------------|--------|
| 1. ANS: A | PTS: 1 |
| 2. ANS: B | PTS: 1 |
| 3. ANS: D | PTS: 1 |
| 4. ANS: E | PTS: 1 |
| 5. ANS: C | PTS: 1 |
| 6. ANS: B | PTS: 1 |
| 7. ANS: E | PTS: 1 |
| 8. ANS: C | PTS: 1 |
| 9. ANS: E | PTS: 1 |
| 10. ANS: D | PTS: 1 |
| 11. ANS: D | PTS:1 |