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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.
a. oral
b. inhalation
c. injection
d. topical
e. 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.
a. malabsorptive
b. first pass
c. Bohr
d. bioequivalence
e. pharmacodynamic

____ 3. Iontophoresis, phonophoresis, and medicated patches all use the _____ route to administer drugs.
a. oral
b. inhalation
c. injection
d. transdermal
e. rectal

____ 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

____ 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

____ 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

____ 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

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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

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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

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