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Pharmacokinetics and its Interplay with Alternative Toxicity Methods

1. Pharmacokinetics refers to the assessment of absorption, distribution, metabolism, and excretion (ADME) of chemicals.

- A. True
 - B. False
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2. Which of the following statements is most accurate?

- A. When a new chemical enters the body, the body identifies it as potentially nontoxic and engages systems in many organs to increase its absorption.
 - B. When a new chemical enters the body, the body identifies it as potentially toxic and engages systems in many organs to increase its absorption.
 - C. When a new chemical enters the body, the body identifies it as potentially toxic and engages systems in many organs to decrease its absorption.
 - D. When a new chemical enters the body, the body identifies it as potentially nontoxic and engages systems in many organs to decrease its absorption.
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3. A researcher identifies a xenobiotic substance in a human body. Which of the following may be identified as a xenobiotic substance?

- A. Human blood
 - B. A synthetic chemical
 - C. Cerebrospinal fluid
 - D. Both A and C
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4. It is not standard practice for pharmaceutical companies to include drug-drug interaction information in investigational new drug (IND) submissions.

- A. True
 - B. False
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5. Which of the following statements is most accurate?

- A. The Lautenberg Chemical Safety for the 21st Century Act includes laws which increase the public's access to chemical information.

- B. The Lautenberg Chemical Safety for the 21st Century Act includes laws which decrease the public's access to chemical information.**
 - C. The Lautenberg Chemical Safety for the 21st Century Act includes laws which decrease the public's access to drug-drug interactions.**
 - D. The Lautenberg Chemical Safety for the 21st Century Act includes laws which decrease the public's access to research conclusions.**
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6. Pharmacokinetic models can be divided into the three general groups: experimental (classical) models, physiologically based models and drug-drug models.

- A. True**
 - B. False**
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7. Which of the following statements is most accurate?

- A. The concepts of systems biology can be used to understand how a chemical affects one system of the human body.**
 - B. The concepts of systems biology can be used to understand how a chemical affects the human body as a whole.**
 - C. The concepts of systems biology can be used to understand how a chemical affects one cell of the human body.**
 - D. The concepts of systems biology can be used to understand how a chemical affects one organ of the human body.**
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8. Evidence-based methodologies can help improve ADME data rigor and validity.

- A. True**
 - B. False**
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