

## 14 ENVIRONMENTAL MANAGEMENT

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### QUIZ 1 (12 POINTS TOTAL)

#### *True/False (3 points)*

1. Transfer of a property may not relieve an owner or operator of liability under CERCLA.
  - a. true
  - b. false
2. The manager of the environmental management department should have a scientific background in environmental issues.
  - a. true
  - b. false
3. ISO 14000 standards are voluntary and do not require certification or registration.
  - a. true
  - b. false

#### *Multiple Choice (2 points)*

4. What measurement device is generally used to determine groundwater flow direction?
  - a. hydrometer
  - b. aqueduct
  - c. divining rod
  - d. piezometer
5. In light of recent terrorist attacks, the U.S. Department of Homeland Security has established risk-based performance standards for chemical facilities based on the following criteria:
  - a. consequence of an attack
  - b. vulnerability of an attack
  - c. threat of an attack
  - d. all of the above

#### *Short Answer (5 points)*

6. What is a value chain?

7. What are the two approaches by which waste minimization can be accomplished?

8. Which waste minimization approach is preferable and why?
  
  
  
  
  
  
  
  
  
  
9. What is Principle 21 of the Stockholm Declaration?
  
  
  
  
  
  
  
  
  
  
10. What does Agenda 21, the United Nations Program of Action for Sustainable Development, emphasize?

***Short Essay (2 points)***

11. What has the U.S. Securities and Exchange Commission done to improve environmental disclosure?
  
  
  
  
  
  
  
  
  
  
12. A variety of analytic tools are used to measure environmental impacts, associated corrective/preventive actions, and the relationship of corrective actions to economic gain. What are the advantages to this approach?

**QUIZ 2 (13 POINTS TOTAL)**

***True/False (3 points)***

1. High-risk chemical facilities are required by the Department of Homeland Security to develop a site security plan.
  - a. true
  - b. false

2. Companies that want to do business in the European Union may be subjected to standards imposed by REACH.
  - a. true
  - b. false
  
3. High levels of toxic substances have been discovered in Arctic seals and polar bears.
  - a. true
  - b. false

**Multiple Choice (3 points)**

4. Which environmental act governs the manufacture and use of chemical products?
  - a. UST
  - b. CAA
  - c. TSCA
  - d. SDWA
  
5. Companies must notify the U.S. National Response Center after release of a reportable quantity of any hazardous substances or pollutants. In some cases, the permitted time lag is \_\_\_\_\_.
  - a. only minutes
  - b. no more than eight hours
  - c. within one hour
  - d. 24 hours
  
6. Mistakes that become environmental problems are usually made by \_\_\_\_\_.
  - a. the purchasing department
  - b. the platform loader, line, or storage workers
  - c. management
  - d. all of the above

**Short Answer (5 points)**

7. List six of the most important U.S. environmental regulations.

8. What should be included in a spill-reporting plan?

9. What is SARA?

10. Name 5 less significant environmental regulations, or Acts, that may be of interest to the environmental manager?

11. What is a gap analysis?

***Short Essay (2 points)***

12. What makes CERCLA or the Superfund law so very controversial?

13. Explain the greenhouse effect.