Geology and the Environment 8th edition Bierman Test Bank

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Chapter 01: Why Environmental Geology Matters

1. Environmental geologists are professionals who apply understanding of the natural environment.
   a. True
   b. False

ANSWER: True
POINTS: 1
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.
KEYWORDS: Bloom's: Remember

2. In today's world of hyperspecializations, the job description of an environmental geologist is very precise.
   a. True
   b. False

ANSWER: False
POINTS: 1
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.
KEYWORDS: Bloom's: Remember

3. Environmental geology is an applied science.
   a. True
   b. False

ANSWER: True
POINTS: 1
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.
KEYWORDS: Bloom's: Remember

4. Groundwater refers to water that is in completely saturated bedrock.
   a. True
   b. False

ANSWER: False
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Remember

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5. The Bunker Hill Basin aquifer supplies 467 billion gallons of freshwater each year.

a. True

b. False

ANSWER: True
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
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6. An environmental geologist studies the Earth's surface, water, the oceans, and the surrounding solar system.

a. True

b. False

ANSWER: False
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Understand

7. Environmental problems of a geological nature can develop slowly.

a. True

b. False

ANSWER: True
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
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8. Hydrogen gas is a non-flammable substance, and completely harmless when it comes in contact with water.

a. True

b. False

ANSWER: False
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: True / False
HAS VARIABLES: False
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	geologists.
KEYWORDS:	Bloom's: Remember

9. More than 100 bodies of climbers have been recovered from Mount Everest due to the warming climate melting the snow and ice.

a. True

b. False

ANSWER:	True
POINTS:	1
REFERENCES:	Environmental Geology: Why It Matters to You and The World
QUESTION TYPE:	True / False
HAS VARIABLES:	False
LEARNING OBJECTIVES:	Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS:	Bloom's: Remember

10. Environmental refugees are people escaping drastic, long-lasting environmental change.

a. True

b. False

ANSWER:	True
POINTS:	1
REFERENCES:	Environmental Geology: Why It Matters to You and The World
QUESTION TYPE:	True / False
HAS VARIABLES:	False
LEARNING OBJECTIVES:	Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS:	Bloom's: Remember

11. Climate mitigation means avoiding or reducing emissions of heat-trapping greenhouse gasses.

a. True

b. False

ANSWER:	True
POINTS:	1
REFERENCES:	Environmental Geology: Why It Matters to You and The World
QUESTION TYPE:	True / False
HAS VARIABLES:	False
LEARNING OBJECTIVES:	Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
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12. Radon is a radioactive gas formed by the natural disintegration of uranium.

a. True

b. False

ANSWER:	True
POINTS:	1

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REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Remember

13. Mapping is fundamental to almost all aspects of environmental geology.
    a. True
    b. False
ANSWER: True
POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS: Bloom's: Understand

14. Sound navigation and ranging is called sonar.
    a. True
    b. False
ANSWER: True
POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS: Bloom's: Remember

15. Scientists who study the pattern of energy waves generated by earthquakes to tease out the structure of the Earth's deep interior are called seismologists.
    a. True
    b. False
ANSWER: True
POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS: Bloom's: Remember

16. Lidar uses radio detection and ranging.
    a. True
    b. False
ANSWER: False

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POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: True / False
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
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17. The population of planet Earth is approximately
    a. 10 million
    b. 800 million
    c. 8 billion
    d. 10 billion

ANSWER: c
POINTS: 1
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.
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18. Which of the following is a critical task that helps build an understanding of volcanoes and predicting eruptions?
    a. Monitoring the volcano
    b. History of the volcano
    c. Mapping the volcano
    d. Explorations of the volcano

ANSWER: a
POINTS: 1
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.
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19. What is an environmental geologist's job description?
    a. Studies the behavior of subatomic particles
    b. Analyzes the history of ancient civilizations through geological records
    c. Investigates the impact of human activities on the Earth's natural environment
    d. Explores the geological formations on other planets in our solar system

ANSWER: c
POINTS: 1
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
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KEYWORDS: Bloom's: Understand

20. A lack of understanding of which of the following phenomena will make things harder on the entire population of a country—no matter where people live?

a. Earthquakes
b. Landslides
c. Volcanic eruptions
d. Climate change

ANSWER: d
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
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21. What is the computer system that assembles, stores, manipulates, and displays geographic data according to location?

a. GOP
b. GPS
c. GSA
d. GIS

ANSWER: b
POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS: Bloom's: Remember

22. Which of the following in one way, shape, or form is a primary concern for many environmental geologists?

a. Chemicals
b. Water
c. Heat
d. Cold

ANSWER: b
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Understand

23. A chemical that was once used to decaffeinate coffee, but readily depresses the human central nervous system is

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known as

a. Trichloroethane
b. Trichlorethylene
c. Tetrachloroethylene
d. Dichloroethane

ANSWER: b
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
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24. A chemical that is used in the production of vinyl and molded plastic toys, but burns the skin, irritates eyes, and is hard on lungs if contaminated, is known as

a. Trichloroethane
b. Trichlorethylene
c. Tetrachloroethylene
d. Dichloroethane

ANSWER: d
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Remember

25. A giant seismic sea wave is called a(an)

a. atmospheric river.
b. tsunami.
c. climate change.
d. groundwater.

ANSWER: b
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Remember

26. A plum of moist air in the atmosphere is called a(an):

a. climate mitigation.

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b. climate change.
c. atmospheric river.
d. environmental refuge.

ANSWER: c
POINTS: 1
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Remember

27. Devices that measure angles and distances between locations, both horizontally and vertically, are called
a. total stations.
b. mapping.
c. satellites.
d. GPS.

ANSWER: a
POINTS: 1
REFERENCES: Tools of the Trade-Environmental Geology
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS: Bloom's: Remember

28. Earth's Universal Transverse Mercator is also known as:
a. satellites.
b. longitude and latitude.
c. environmental justice.
d. atmospheric river.

ANSWER: b
POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
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29. In the last decade, _____ has/have become all the rage for environmental geoscientists.
a. mapping
b. GPS
c. Lidar
d. drones

ANSWER: d

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POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
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30. Which instrument onboard a space shuttle was used by the SRTM to map most of the Earth's topography at high resolution?

a. Sonar
b. Radar
c. Lidar
d. Mapping

ANSWER: b
POINTS: 1
REFERENCES: Tools of the Trade—Environmental Geology
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS: Bloom's: Remember

31. Explain why the job description of an environmental geologist is so vague.
ANSWER: Answers will vary.
POINTS: 10
REFERENCES: What is Environmental Geology and Who Are Environmental Geologists?
QUESTION TYPE: Essay
HAS VARIABLES: False
STUDENT ENTRY MODE: Basic
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.
KEYWORDS: Bloom's: Apply

32. Discuss some of the lessons learned from environmental geological problems that have occurred.
ANSWER: Answers will vary.
POINTS: 10
REFERENCES: Environmental Geology: Why It Matters to You and The World
QUESTION TYPE: Essay
HAS VARIABLES: False
STUDENT ENTRY MODE: Basic
LEARNING OBJECTIVES: Ch01.LO.02 - Give examples of major problems approached by environmental geologists.
KEYWORDS: Bloom's: Apply

33. Discuss the differences and uses for sonar, radar, and lidar.
ANSWER: Answers will vary.
POINTS: 10

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Chapter 01: Why Environmental Geology Matters

REFERENCES:	Tools of the Trade—Environmental Geology
QUESTION TYPE:	Essay
HAS VARIABLES:	False
STUDENT ENTRY MODE:	Basic
LEARNING OBJECTIVES:	Ch01.LO.03 - Describe the tools used by environmental geologists doing science.
KEYWORDS:	Bloom's: Apply

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