

***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.

KEYWORDS: Bloom's: Remember

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.

KEYWORDS: Bloom's: Understand

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.
KEYWORDS: Bloom's: Remember

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
LEARNING OBJECTIVES: Ch01.LO.01 - Explain what environmental geology is and why it matters.

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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.

KEYWORDS: Bloom's: Remember

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

LEARNING OBJECTIVES: Ch01.LO.03 - Describe the tools used by environmental geologists doing science.

KEYWORDS: Bloom's: Remember

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
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KEYWORDS: Bloom's: Remember

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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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