

***Climate Change and Population Health 1st edition
Sarfaty Test Bank***

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Chapter: Chapter 01 - Quiz

Multiple Choice

1. Which of the following impacts on human health are caused by climate change's effect on water quality?

- A) Cholera and campylobacter
- B) Heart-related illness and death
- C) Forced migration and mental health impacts
- D) Malaria and Rift valley fever

Ans: A

Complexity: Moderate

Ahead: Global Warming vs Climate Change

Subject: Chapter 1

Title: The Science Behind the Changing Climate

2. A majority of the atmosphere that surrounds earth is composed of:

- A) oxygen.
- B) carbon dioxide.
- C) nitrogen.
- D) water.

Ans: C

Complexity: Moderate

Ahead: The Earth and Its Atmosphere

Subject: Chapter 1

Title: The Science Behind the Changing Climate

3. Which of the following is true of how the Sun's rays interact with the Earth?

- A) Most of the sunlight is absorbed by the atmosphere.
- B) Heat radiates inward from the warmed surface of the Earth.
- C) All of the infrared energy is absorbed by "greenhouse" gases.
- D) Some of the infrared energy is emitted into space.

Ans: D

Complexity: Difficult

Ahead: How Does the Thin Atmosphere Surrounding the Earth Help Retain the Sun's Heat?

Subject: Chapter 1

Title: The Science Behind the Changing Climate

4. Which of the following was true about the average temperatures between 1950 and 1980?
- A) The cooler-than-average days were more frequent than the warmer-than-average days.
 - B) The warmer-than-average days were more frequent than the cooler-than-average days.
 - C) The average temperatures were stable and hovered around the same central number.
 - D) The average temperatures decreased in comparison to the temperatures between 1920 and 1950.

Ans: C

Complexity: Difficult

Ahead: The Observation of Global Warming

Subject: Chapter 1

Title: The Science Behind the Changing Climate

5. In 2018, a majority of carbon dioxide that entered the atmosphere in the United States came from energy burned:

- A) to power transportation.
- B) to power residential and commercial uses.
- C) to power industry.
- D) from agriculture fertilizer or the production of feed animals.

Ans: A

Complexity: Moderate

Ahead: The Role of Greenhouse Gases in the Changing Composition of Our Atmosphere

Subject: Chapter 1

Title: The Science Behind the Changing Climate

6. Which of the following is true of carbon sinks?
- A) Carbon sinks are being created by the destruction of rain forests.
 - B) The creation of more carbon sinks contributes to rising temperatures.
 - C) As the amount of CO₂ in the atmosphere rises, more is absorbed by natural systems.
 - D) Carbon sinks have the capacity to isolate some of the atmospheric carbon.

Ans: C

Complexity: Difficult

Ahead: Carbon Sinks

Subject: Chapter 1

Title: The Science Behind the Changing Climate

7. Which of the following is an example of subsidence?
- A) Expansion of oceans as a result of excess heat
 - B) The sinking of land in some coastal areas
 - C) The melting of the ice sheet in the Arctic over the North Pole
 - D) Increasing sea levels as a result of higher tides

Ans: B

Complexity: Difficult

Ahead: How Does the Warming of the Earth Affect the Environment?

Subject: Chapter 1

Title: The Science Behind the Changing Climate

8. For every degree of higher temperature, the air can hold _____ more moisture.

- A) 1–2%
- B) 2–4%
- C) 4–7%
- D) 7–10%

Ans: C

Complexity: Moderate

Ahead: How Does the Warming of the Earth Affect the Environment?

Subject: Chapter 1

Title: The Science Behind the Changing Climate

9. What cautionary statement is associated with an air quality of 201 to 300 ppb?

- A) No health impacts are expected.
- B) Unusually sensitive people should limit prolonged outdoor exertion.
- C) Active children and adults should limit prolonged outdoor exertion.
- D) Active children and adults should limit any outdoor exertion.

Ans: D

Complexity: Moderate

Ahead: How Does the Warming of the Earth Affect the Environment?

Subject: Chapter 1

Title: The Science Behind the Changing Climate

10. _____ is the degree to which people or communities are affected, either adversely or beneficially, by a varying climate or other change.

- A) Exposure
- B) Sensitivity
- C) Adaptive capacity
- D) Vulnerability

Ans: B

Complexity: Moderate

Ahead: Vulnerability to Climate Change and Regional Differences

Subject: Chapter 1

Title: The Science Behind the Changing Climate

True/False

1. True or False? Air is less dense and colder in the troposphere than in the stratosphere.

Ans: False

Complexity: Easy

Ahead: How Does the Thin Atmosphere Surrounding the Earth Help Retain the Sun's Heat?

Subject: Chapter 1

Title: The Science Behind the Changing Climate

2. True or False? Much of the carbon 14 in the carbon dioxide in the Earth's atmosphere has not degraded much so we can conclude that it was placed there recently.

Ans: True

Complexity: Moderate

Ahead: How Do We Know that the Carbon Dioxide Level Has Risen Over the Past 2,000 Years?

Subject: Chapter 1

Title: The Science Behind the Changing Climate

3. True or False? The overall quantity of methane emissions is less than CO₂ emissions, but has a greater effect than CO₂.

Ans: True

Complexity: Moderate

Ahead: The Role of Greenhouse Gases in the Changing Composition of Our Atmosphere

Subject: Chapter 1

Title: The Science Behind the Changing Climate

4. True or False? Nearly all of the greenhouse gases that have accumulated in the atmosphere are from fossil fuels.

Ans: True

Complexity: Easy

Ahead: Natural Versus Human Causes of Atmospheric Warming

Subject: Chapter 1

Title: The Science Behind the Changing Climate

5. True or False? Global warming is shortening the growing season, decreasing the length of pollen seasons.

Ans: False

Complexity: Moderate

Ahead: How Does the Warming of the Earth Affect the Environment?

Subject: Chapter 1

Title: The Science Behind the Changing Climate