

Assessment

Section Quiz

25.1

Section: Factors That Affect Climate**MATCHING**

In the space provided, write the letter of the definition that best matches the term or phrase.

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|------------------------|--|
| _____ 1. specific heat | a. a seasonal wind that blows toward land in summer, bringing heavy rains, and that blows away from land in winter, bringing dry weather |
| _____ 2. climate | |
| _____ 3. El Niño | b. a periodic event in the eastern Pacific Ocean in which the surface-water temperature turns very warm |
| _____ 4. doldrums | |
| _____ 5. monsoon | c. the average weather conditions in an area over a long period of time |
| | d. the quantity of heat required to raise a unit mass 1 K or 1°C |
| | e. the equatorial belt of low pressure |

MULTIPLE CHOICE

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- _____ 6. What continues to absorb solar energy and increase in temperature as long as the sun's rays hit it?
- | | |
|----------|---------------|
| a. land | c. air |
| b. ocean | d. vegetation |
- _____ 7. Which of the following affects the angle at which the sun's rays hit Earth?
- | | |
|--------------|-------------|
| a. weather | c. latitude |
| b. sea level | d. wind |
- _____ 8. A weather event in which a moving air mass hits a mountain, rises, cools, and loses most of its moisture through precipitation is called a
- | | |
|-----------------|-------------|
| a. monsoon. | c. foehn. |
| b. rain shadow. | d. chinook. |
- _____ 9. Which of the following weather conditions is NOT affected by wind?
- | | |
|------------------|----------------|
| a. precipitation | c. temperature |
| b. cloud cover | d. drought |
- _____ 10. Two major factors used to identify climate are
- | | |
|-----------------------------------|---------------------------------|
| a. longitude and latitude. | c. latitude and temperature. |
| b. temperature and precipitation. | d. precipitation and longitude. |

Assessment

Section Quiz

25.2

Section: Climate Zones**MATCHING**

In the space provided, write the letter of the definition that best matches the term or phrase.

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|----------------------------------|---|
| _____ 1. microclimate | a. a climate in which temperatures average 8°C (maximum) in the coldest month and 10°C (minimum) in the warmest month |
| _____ 2. tropical climate | b. the climate of a small area |
| _____ 3. middle-latitude climate | c. a climate characterized by variable temperatures and precipitation over short distances |
| _____ 4. polar climate | d. a climate in which average temperatures are near freezing |
| _____ 5. highland climate | e. a climate typical of equatorial regions |

MULTIPLE CHOICE

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- _____ 6. City buildings absorb and reradiate solar energy, which raises the temperature of the air and creates a
a. highland climate. c. heat trap.
b. heat island. d. sub-climate.
- _____ 7. Which of these middle-latitude climates has drought-resistant vegetation; cold, dry winters; and warm, wet summers?
a. marine west coast c. steppe
b. humid continental d. mediterranean
- _____ 8. Which of these climates is characterized by dense, lush vegetation; broadleaf plants; and high biodiversity?
a. polar c. desert
b. savanna d. rain forest
- _____ 9. Which of these climates has treeless plains and nine months of temperatures below freezing?
a. tundra c. subarctic
b. mediterranean d. polar icecap
- _____ 10. Which of the following moderates temperature and increases rainfall?
a. mountain c. ocean
b. iceberg d. desert

Assessment

Section Quiz

25.3

Section: Climate Change**MATCHING**

In the space provided, write the letter of the definition that best matches the term or phrase.

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|------------------------------|--|
| _____ 1. global warming | a. the idea that orbital changes lead to climate changes |
| _____ 2. Milankovitch theory | b. a scientist who gathers data to study climate changes |
| _____ 3. climatologist | c. a gradual increase in the average global temperature due to a higher concentration of atmospheric gases |
| _____ 4. ice cores | d. a method that measures pollen, leaf shapes, and animal adaptations to study past climates |
| _____ 5. fossils | e. a method that measures gases in meltwater to study past climates |

MULTIPLE CHOICE

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- _____ 6. Climate does NOT change as a result of
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|--------------------------------|-----------------------|
| a. plate tectonic motion. | c. human activity. |
| b. general circulation models. | d. volcanic activity. |
- _____ 7. Which of the following is NOT an impact of climate change?
- | | |
|-----------------------------|----------------------------|
| a. change in tidal patterns | c. global warming |
| b. sea-level changes | d. change in precipitation |
- _____ 8. Which method measures concentrations of ^{18}O to determine past climate changes?
- | | |
|-----------------------|---------------|
| a. ice cores | c. fossils |
| b. sea-floor sediment | d. tree rings |
- _____ 9. Thin tree rings indicate which of the following?
- | | |
|--------------------------------|--------------------------------|
| a. cool weather, more rainfall | c. warm weather, less rainfall |
| b. warm weather, more rainfall | d. cool weather, less rainfall |
- _____ 10. Which of the following will NOT help reduce CO_2 levels in the atmosphere?
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|--------------------------------|------------------------------|
| a. using public transportation | c. burning more fossil fuels |
| b. driving a hybrid car | d. recycling |