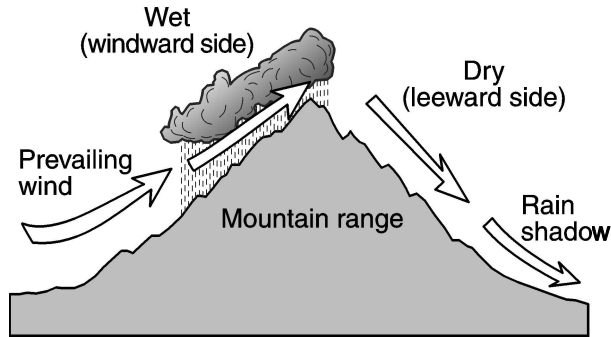


CHAPTER 14 STANDARDIZED TEST PRACTICE

CLIMATE

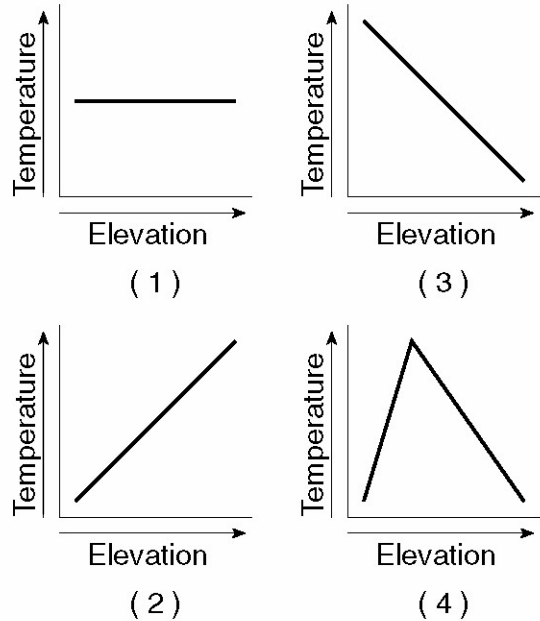
1. The cross-section below shows how prevailing winds have caused different climates on the windward and leeward sides of a mountain range.



Why does the windward side of this mountain range have a wet climate?

- A Rising air is compressed and cools, causing water droplets to evaporate.
- B Rising air is compressed and warms, causing water vapor to condense.
- C Rising air expands and cools, causing water vapor to condense.
- D Rising air expands and warms, causing water droplets to evaporate.

2. Which graph best shows the general effect that differences in elevation above sea level have on the average annual temperature?



- A 1
- B 2
- C 3
- D 4

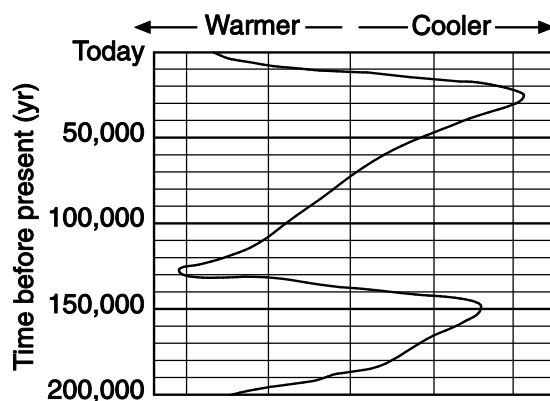
3. What is the first stage in formation of El Niño?
- A Convection currents strengthen.
 - B The jet stream shifts north.
 - C Trade winds weaken.
 - D Precipitation increases.



CHAPTER 14 STANDARDIZED TEST PRACTICE continued

4. Why is Earth's surface warmer at the equator than at the poles?
- A The Sun is closer to the equator than the poles.
 - B The equator receives more direct sunlight than the poles.
 - C There is more water at the equator, which absorbs more heat.
 - D Ice at the poles keeps the surface colder than the surface at the equator.
5. Which of the following climate effects does El Niño produce?
- A flooding and mudslides in California
 - B heavy rains in the Sahara Desert
 - C cold, wet weather in the upper Midwest
 - D droughts in Florida
6. Scientists theorize that changes in the tilt of Earth's axis might be responsible for the cyclical reoccurrence of _____.
- A ice ages
 - B volcanic eruptions
 - C El Niño
 - D high sea levels

7. The diagram below shows the trends in the temperature of North America during the last 200,000 years, as estimated by scientists. What is the total number of major glacial periods that have occurred in North America in the last 200,000 years?



- A 2
 - B 3
 - C 4
 - D 5
8. An increase in which gas would cause the most greenhouse warming of Earth's atmosphere?
- A nitrogen
 - B oxygen
 - C carbon dioxide
 - D hydrogen

