

**M O D E R N E A R T H S C I E N C E**

## Section 26.1

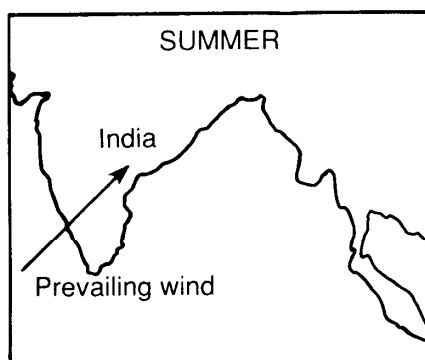
**Factors That Affect Climate**

**Read each statement below. If the statement is true, write *T* in the space provided. If the statement is false, write *F* in the space provided.**

- \_\_\_\_\_ 1. The specific heat of land is higher than that of water.
- \_\_\_\_\_ 2. Winds that blow down mountain slopes may be either warm or cold.
- \_\_\_\_\_ 3. At the equator, both days and nights are about 12 hours long in all seasons.
- \_\_\_\_\_ 4. Wave cyclones frequently develop in the subtropical highs.
- \_\_\_\_\_ 5. The Gulf Stream has a moderating effect on the climate of the east coast of North America.

**Choose the one best response. Write the letter of that choice in the space provided.**

- \_\_\_\_\_ 6. The warm winds called the Chinooks are found on the:
- a. eastern slope of the Rocky Mountains.
  - b. eastern slope of the Sierras.
  - c. southern slope of the Himalayas.
  - d. southern slope of the Alps.
- \_\_\_\_\_ 7. When average daily temperatures are plotted on a map, the boundaries of the zones formed roughly coincide with:
- a. coastlines.
  - b. longitudes.
  - c. mountain ranges.
  - d. latitudes.
- \_\_\_\_\_ 8. At the equator, the sun's rays strike the earth's surface at an angle of about:
- a. 10°.
  - b. 25°.
  - c. 45°.
  - d. 90°.



- \_\_\_\_\_ 9. What is the name for the wind in this diagram?
- a. bora
  - b. foehn
  - c. monsoon
  - d. mistral
- \_\_\_\_\_ 10. Which of these statements best describes what happens to an air mass moving over a mountain range?
- a. Its temperature increases moving upslope.
  - b. It loses moisture moving upslope.
  - c. Its temperature decreases moving downslope.
  - d. It gains moisture moving downslope.