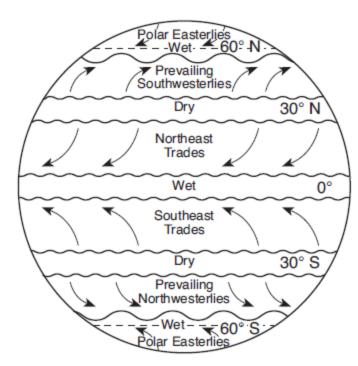
Base your answers to questions 1 through 3 on the map below, which shows Earth's planetary wind belts.



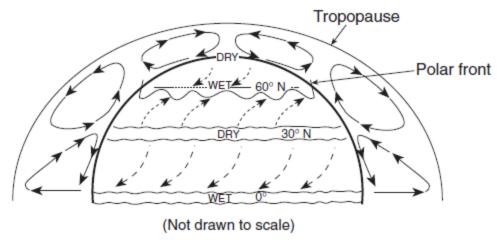
- 1. Which climatic conditions exist where the trade winds converge?
 - A) cool and wet
- B) cool and dry
- C) warm and wet
- D) warm and dry
- 2. Which wind belt has the greatest effect on the climate of New York State?
 - A) prevailing northwesterlies

 - C) northeast trades
- 3. The curving of these planetary winds is the result of
- A) Earth's rotation on its axis
- C) the unequal heating of Earth's surface

- B) prevailing southwesterlies
- D) southeast trades
- B) the unequal heating of Earth's atmosphere
- D) Earth's gravitational pull on the Moon
- 4. In which planetary wind belt do most storms move toward the northeast?
 - A) 30° N to 60° N
- B) 0° to 30° N
- C) 0° to 30° S
- D) 30° S to 60° S
- 5. The planetary wind and moisture belts indicate that large amounts of rainfall occur at Earth's Equator because air is
 - A) converging and rising
- B) converging and sinking
- C) diverging and rising
- D) diverging and sinking
- 6. At which latitudes do currents of dry, sinking air cause the dry conditions of Earth's major deserts?
 - A) 0° and 30° N
- B) 60° N and 60° S
- C) 30° N and 30° S
- D) 60° S and 90° S

- 7. In the Northern Hemisphere, in which direction does surface wind circulate in a high-pressure air mass?
 - A) clockwise and toward the center
 - B) clockwise and away from the center
 - C) counterclockwise and toward the center
 - D) counterclockwise and away from the center
- 8. In the Northern Hemisphere, what is the direction of surface wind circulation in a low-pressure system?
 - A) counterclockwise and outward from the center
 - B) counterclockwise and toward the center
 - C) clockwise and outward from the center
 - D) clockwise and toward the center

9. Base your answer to the following question on the diagram below, which represents the planetary wind and moisture belts in Earth's Northern Hemisphere.

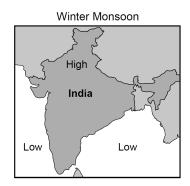


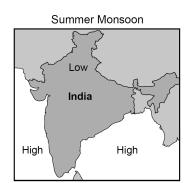
The climate at 90° north latitude is dry because the air at that location is usually

A) warm and rising

- B) warm and sinking
- C) cool and rising
- D) cool and sinking

Base your answers to questions 10 and 11 on the maps below and on your knowledge of Earth science. The maps show a portion of India and Southeast Asia, bordering on the Indian Ocean, during the winter and summer monsoon seasons. Large areas of high and low air pressure are shown during each season.





10The heavy monsoon rains affecting India and Southeast Asia occur during

- A) winter, when winds blow from the land
- B) winter, when winds blow toward the high pressure
- C) summer, when winds blow from the ocean
- D) summer, when winds blow toward the high pressure
- 11. Which two-letter symbol represents the most likely air mass formed over portions of the Indian Ocean shown on the maps?
 - A) mP
- B) mT
- C) cP
- D) cT

12. Which map best represents the surface wind pattern around Northern Hemisphere high-pressure and low-pressure centers?

