Date _____ Period _____ Name _____

METEOROLOGY

1. Which pair of factors accounts for the differences in the amount of solar radiation from one area to another?

A prevailing winds and mountain areas

B prevailing winds and ocean currents

C prevailing winds and the tilt of Earth on its axis

D the tilt of Earth on its axis and the path Earth follows as it revolves around the Sun

2. What causes the Coriolis effect?

A Earth's shape

B Earth's rotation

C Earth's revolution around the Sun

D Earth's energy flows from the equator to the poles

3. Which global wind pattern affects the weather in the United States?

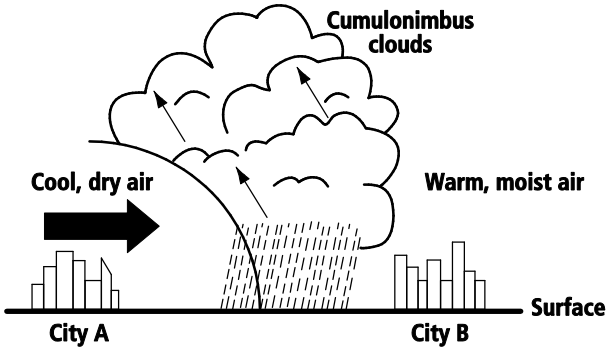
A westerlies

B polar easterlies

C northeast trade winds

D southeast trade winds

Base your answers to questions 4 and 5 on the diagram of a weather front below.



4. Which type of weather front is shown?

A warm front

B cold front

C occluded front

D stationary front

5. Which statement best describes the movement of warm air in the front?

A It rises sharply above the cool air.

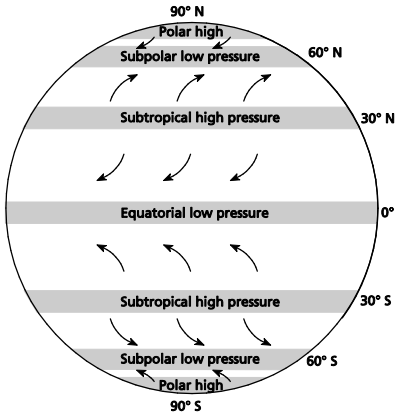
B It rises slowly above the cool air.

C It sinks under the cool air.

D It stalls.

GO ON

Base your answers to questions 6 and 7 on the diagram below, which shows Earth's planetary wind belts and pressure belts.



6. The best inference that can be made from this diagram is that winds blow from regions of _____.

A high latitude to regions of low latitude

B high pressure to regions of low pressure

C high elevation to regions of low elevation

D high temperature to regions of low temperature

7. The surface winds shown in the diagram follow curving paths mainly due to Earth's _____.

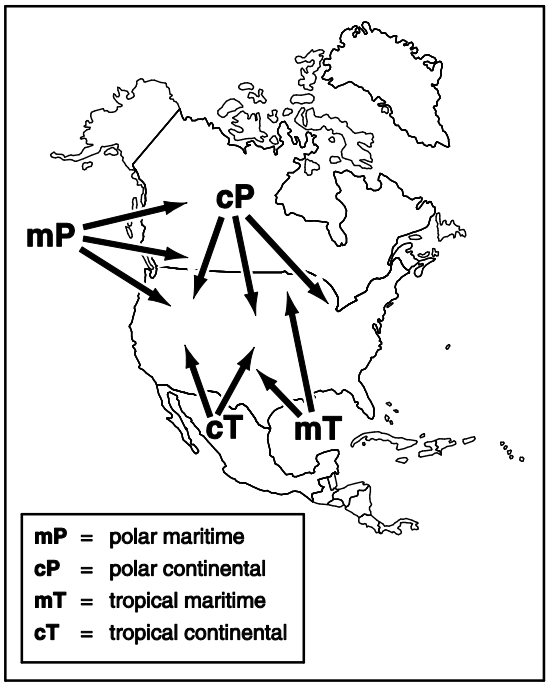
A revolution

B rotation

C gravitational field

D magnetic field

8. In the diagram below, which type of air mass is cold and dry?



A polar maritime

B polar continental

C tropical maritime

D tropical continental