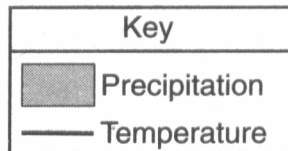
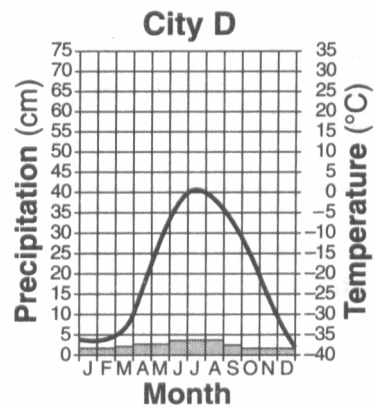
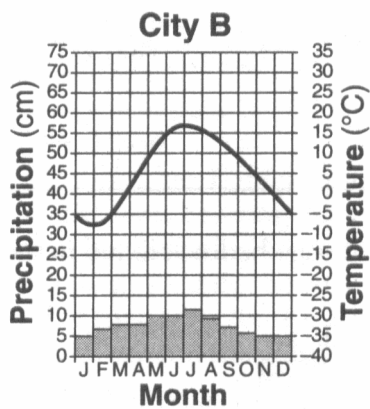
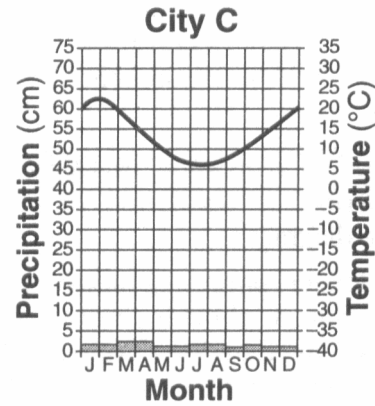
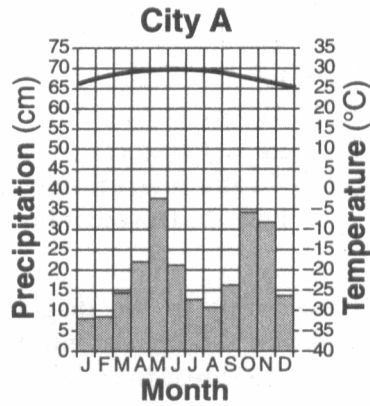


1. Base your answer to the following question on the climate graphs below, which show average monthly precipitation and temperatures at four cities, A, B, C, and D.



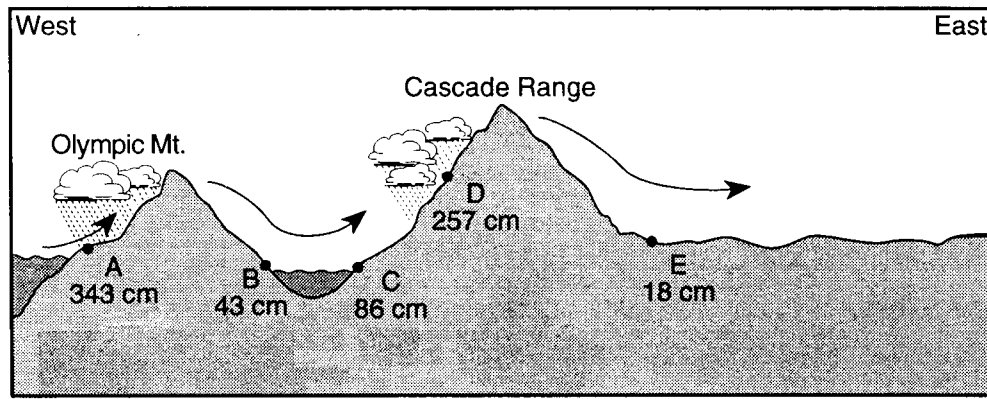
During which season does city B usually experience the month with the highest average precipitation?

- 1) spring 2) summer 3) fall 4) winter

2. Which statement best explains why climates at continental shorelines generally have a smaller yearly temperature range than inland climates at the same latitude?
- 1) Land is a poor absorber and a poor conductor of heat energy.
 - 2) Land changes temperature rapidly, due to the high specific heat and lack of transparency of land.
 - 3) Ocean water is a good absorber and a good conductor of heat energy.
 - 4) Ocean water changes temperature slowly, due to the high specific heat and transparency of water.

3. During the summer months, which change in location would most likely cause a decrease in the observed daytime air temperatures?
- 1) from 45° N latitude to 20° N latitude
 - 2) from sea level to 5 km above sea level
 - 3) from sea level on the windward side of a mountain to sea level on the leeward side
 - 4) from the ocean coast to an inland location

4. The diagram below shows the average yearly precipitation, in centimeters, at locations *A* through *E* across the State of Washington. Arrows indicate the direction of prevailing winds.



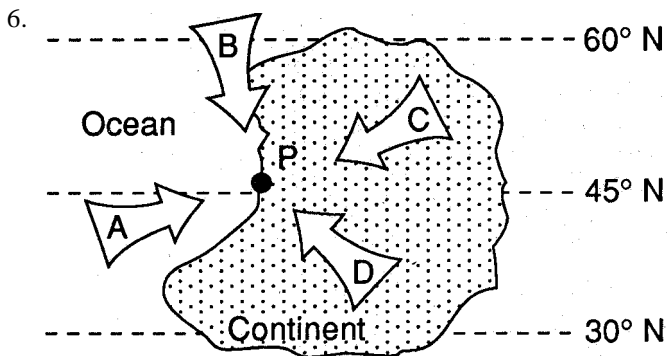
(Not drawn to scale)

Which statement best explains why location *B* and location *E* receive relatively low average yearly precipitation?

- 1) These locations are on the leeward side of mountain ranges.
- 2) These locations are on the windward side of mountain ranges.
- 3) These locations receive more insolation than the other locations.
- 4) These locations receive less insolation than the other locations.

5. Some scientists believe that high-flying airplanes and the discharge of fluorocarbons from spray cans are affecting the atmosphere. Which characteristic of the atmosphere do they believe is affected?



- 1) composition of the ozone layer of the stratosphere
- 2) wind velocity of the tropopause
- 3) location of continental polar highs
- 4) air movement in the doldrums



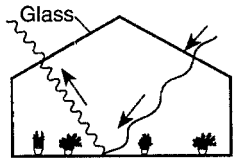
The map above shows an imaginary continent in the Earth's planetary wind belt between 30° and 60° North latitude. Location *P* is on the western edge of the continent. Location *P* has mild winters with much precipitation. Which arrow indicates the direction of the prevailing winds at this location?

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

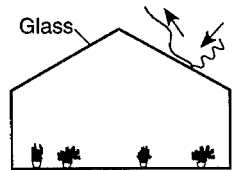
7. Which diagram best shows how air inside a greenhouse warms as a result of energy from the Sun?

Key	
	Visible light rays
	Infrared rays

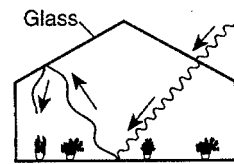
1)



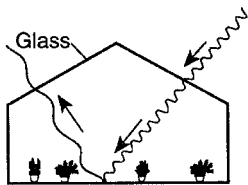
2)



3)



4)



Answer Key
[New Exam]

1. 2

2. 4

3. 2

4. 1

5. 1

6. 1

7. 3
