



Global Weather - Review Questions

1. The earth's is tilted on it's axis approximately:
 - a. 21.5°
 - b. 23.5°
 - c. 25.3°
 - d. 25.5°

2. The date with the shortest amount of daylight in the Southern Hemisphere is:
 - a. June 22
 - b. March 21
 - c. September 23
 - d. December 22

3. The two dates on which equal daylight and night time hours occur are:
 - a. June 22 / March 21
 - b. March 21 / September 23
 - c. September 23 / December 22
 - d. March 21 / December 22

4. The earth is closest to the sun in the Northern Hemisphere summer. (TRUE, FALSE)

5. Temperatures inside a closed vehicle can reach 140°F-190°F degrees within 30 minutes on a hot, sunny day. (TRUE, FALSE)

6. Usually, fair and dry/hot weather is associated with high pressure around _____ (30°N/S, 50°-60° N/S) latitude with rainy and stormy weather associated with low pressure around _____ (30°N/S, 50°-60° N/S) latitude.

7. The global circulation pattern which dominates the tropics is called the:
 - a. Polar cell
 - b. Ferrel cell
 - c. Brady cell
 - d. Hadley cell

8. Jet streams also "follow the sun" in that as the sun's elevation _____ (increases, decreases) each day in the spring, the jet streams shifts by moving _____ (north, south) during the Northern Hemisphere spring.
9. Climates are the average weather conditions usually found in a particular place. (TRUE, FALSE)
10. Exposure to full sunshine can increase heat index values by up to:
- 5°F
 - 8°F
 - 12°F
 - 15°F
11. If the relative humidity is _____, the capacity for air to hold water is _____. Therefore, the amount of evaporation is _____ and the heat removed from the body is _____.
- low, smaller, lower, more
 - high, larger, higher, less
 - high, smaller, lower, less
 - low, smaller, higher, more
12. If the temperature outside is -5°F and the wind chill temperature is -31°F, then your car's radiator temperature will be -31°F. (TRUE, FALSE)
13. In 1868, the Christmas Day record high temperature of 101°F would have most likely occurred in which city?
- New York City, NY
 - Miami, Florida
 - Sydney, Australia
 - Phoenix, AZ
14. Usually, fair and dry/hot weather is associated with _____ pressure, with rainy and stormy weather associated with _____ pressure.
- normal / low
 - high / low
 - low / high
 - high / normal

15. Tropical climates always experience...
- severe winters
 - low humidity
 - warm air
 - dry summers
16. In dry climates, yearly precipitation...
- is less than the rate of evaporation.
 - greater than the rate of evaporation.
 - greater than 30 inches.
 - less than that in polar climates.
17. Which of the following is true?
- Climates at high latitudes are very warm.
 - The Great Lakes cause the climate to be colder.
 - Places at lower elevations tend to have higher temperatures.
 - The Rocky Mountains are generally in a moist subtropical mid-latitude climate.
18. Of the follow main Köppen climates, which is not one the six main climate divisions?
- Highland
 - Desert
 - Tropical
 - Polar
19. During an equinox, the Sun is directly over what part of the Earth at noon?
- Southern Hemisphere
 - Tropic of Capricorn
 - Tropic of Cancer
 - Equator
20. The 10-year average (1997-2006) for heat related deaths in the U.S. is _____ in a typical year.
- 92
 - 123
 - 145
 - 170