

Sample Quiz 2

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. During the afternoon the greatest temperature difference between the surface air and the air several meters above occurs on a
- clear, calm afternoon.
 - clear, windy afternoon.
 - cloudy, calm afternoon.
 - cloudy, windy afternoon.
- _____ 2. In summer, humid regions typically have _____ daily temperature ranges and _____ maximum temperatures than drier regions.
- smaller, lower
 - smaller, higher
 - larger, lower
 - larger, higher
- _____ 3. One would expect the *lowest* temperatures to be found next to the ground on a
- clear, damp, windy night.
 - cloudy night.
 - clear, dry, calm night.
 - clear, dry, windy night.
 - rainy night.
- _____ 4. At what time during a 24-hour day would a radiation temperature inversion best be developed?
- at sunset
 - near sunrise
 - at noon
 - toward the end of the morning
 - between 2 and 5 pm when the air temperature reaches a maximum
- _____ 5. The total mass of water vapor stored in the atmosphere represents about one _____ supply of the world's precipitation.
- day's
 - week's
 - month's
 - year's
- _____ 6. As the air temperature increases, the air's capacity for water vapor
- increases.
 - decreases.
 - remains constant.
 - is unrelated to air temperature and can either increase or decrease.
- _____ 7. A high water vapor pressure indicates
- a relatively large number of water vapor molecules in the air.
 - a relatively small number of water vapor molecules in the air.
 - a relatively high rate of evaporation.
 - an abundant supply of condensation nuclei in the air.

- _____ 8. If very cold air is brought indoors and warmed with no change in its moisture content, the saturation vapor pressure of this air will _____ and the relative humidity of this air will _____.
- increase, increase
 - decrease, decrease
 - increase, decrease
 - decrease, increase
- _____ 9. With which set of conditions below would you expect wet laundry hanging outdoors on a clothesline to dry most quickly?

	Air Temperature (° F)	Relative Humidity	Wind Speed
a.	60	75%	20 MPH
b.	40	75%	20
c.	60	50%	20
d.	40	50%	10
e.	60	75%	10

- _____ 10. The name given to a towering cloud that has *not* fully developed into a thunderstorm is
- cumulus humilis.
 - cumulus congestus.
 - cumulonimbus.
 - altocumulus.
- _____ 11. A low, lumpy cloud layer that appears in rows, patches or rounded masses would be classified
- nimbostratus.
 - stratus.
 - cumulus.
 - altocumulus.
 - stratocumulus.
- _____ 12. A dim, watery sun visible through a gray sheet-like cloud layer is often a good indication of _____ clouds.
- stratocumulus
 - cirrostratus
 - cumulonimbus
 - altostratus
 - nimbostratus
- _____ 13. Which cloud type is composed of ice crystals and can cause a halo to form around the sun or moon?
- altostratus
 - stratus
 - nimbostratus
 - cirrostratus
 - angelitus
- _____ 14. Which of the following will decrease in a rising parcel of air?
- relative humidity
 - absolute humidity
 - specific humidity
 - all of the above

- ___ 15. The rate at which the actual air temperature changes with increasing height above the surface is referred to as the
- environmental lapse rate.
 - dry adiabatic rate.
 - moist adiabatic rate.
 - thermocline.
- ___ 16. If an air parcel is given a small push upward and it falls back to its original position, the atmosphere is said to be
- stable.
 - unstable.
 - isothermal.
 - neutral.
 - adiabatic.
- ___ 17. Most thunderstorms do not extend very far into the stratosphere because the air in the stratosphere is
- unstable.
 - stable.
 - too cold.
 - too thin.
 - too dry.
- ___ 18. Which of the following is found in the greatest concentration in the mixed ice and water phase region of a cold cloud?
- ice crystal nuclei
 - ice crystals
 - supercooled water droplets
 - graupel particles
- ___ 19. Ice nuclei may be
- ice crystals
 - certain clay minerals
 - bacteria in decaying plant leaf material
 - all of the above
- ___ 20. Clouds in the tropics tend to move from east to west. Consequently, which rhyme best describes a rainbow seen in the tropics?
- rainbow at the break of dawn/ means, of course, the rain is gone
 - rainbow at the break of day/ means that the rain is on the way
 - rainbow with a setting sun/ means that sailors can have some fun
 - rainbow in the morning/ means that sailors should take warning
- ___ 21. The bending of light that occurs when it enters and passes *through* a substance of different density is called
- diffraction.
 - reflection.
 - refraction.
 - scattering.
- ___ 22. A ring of light encircling the sun or moon could be either
- a rainbow or a halo.
 - a halo or a sundog.
 - a halo or a corona.
 - a sundog or a crepuscular ray.

**Sample Quiz 2
Answer Section**

MULTIPLE CHOICE

1. ANS: A
2. ANS: A
3. ANS: C
4. ANS: B
5. ANS: B
6. ANS: A
7. ANS: A
8. ANS: C
9. ANS: C
10. ANS: B
11. ANS: E
12. ANS: D
13. ANS: D
14. ANS: B
15. ANS: A
16. ANS: A
17. ANS: B
18. ANS: C
19. ANS: D
20. ANS: A
21. ANS: C
22. ANS: C