



Clouds - Review Questions

1. Cloud condensation nuclei are about _____ than the size of a cloud droplet.
 - a. 10 times larger
 - b. 1000 times smaller
 - c. 100 times smaller
 - d. 500 times larger

2. The rate at which air cools as it rises is called _____ rate.
 - a. Parcel
 - b. Cooling
 - c. Lapse
 - d. Decreasing

3. The dry air lapse rate is _____ for every _____.
 - a. 9.8°F / 1,000 feet
 - b. 5.5°C / 1,000 meters
 - c. 5.5°F / 1,000 feet
 - d. 9.8°C / 100 meters

4. If a parcel of air, at the surface, had a temperature of 80°F and it rises 4,000 feet into the atmosphere, assuming the dry lapse rate of 5.5°F / 1,000 feet, the temperature of the parcel would be _____.
 - a. 5.5°F
 - b. 58°F
 - c. 58°C
 - d. 22°F

5. As a parcel of air rises in the atmosphere it moves into higher pressure. (TRUE, FALSE)

6. The cloud form which is composed of ice crystals is called _____.
 - a. Cirro-form
 - b. Strato-form
 - c. Cumulo-form
 - d. Nimbo-form

7. This cloud form looks like fluffy white cotton balls.
- Strato-form
 - Cirro-form
 - Cumulo-form
 - Nimbo-form
8. Thunderstorms come from this cloud type.
- Cumulus
 - Nimbostratus
 - Cumulonimbus
 - Stratocumulus
9. Divided by jet streams, cumulonimbus clouds can reach their greatest heights in the _____ region.
- Polar
 - Temperate
 - Tropical
 - Sub-tropical
10. _____ is not considered a low-level cloud.
- Cumulus
 - Stratus
 - Cumulonimbus
 - Nimbostratus
11. _____ is not considered a mid-level cloud.
- Nimbostratus
 - Alto cumulus
 - Altostratus
 - Alto cirrus
12. _____ is not considered a high-level cloud.
- Cirroaltus
 - Cirrus
 - Cirrostratus
 - Cirrocumulus

13. The best clue that this is Altostratus and not Cirrostratus is the lack of _____.
- a. precipitation
 - b. other cloud types
 - c. a halo



14. This basic cloud type is a common mid-level cloud.
- a. Altocumulus
 - b. Altostratus
 - c. Cumulus
 - d. Nimbostratus



15. Against the backdrop overcast caused by a Cumulonimbus cloud this foreground cloud is a _____ cloud.
- a. Altus
 - b. Stratus
 - c. Stratocumulus
 - d. Cumulus



16. This is a high-level cloud. (TRUE, FALSE)



17. The Altocumulus clouds in this picture appear white as a result of Mie scattering. (TRUE, FALSE)



18. _____ is a color that is not part of the visible spectrum.

- a. Olive
- b. Indigo
- c. Orange
- d. Infrared

19. As light waves enter the atmosphere, they begin to scatter in all directions by collisions with atoms and molecules. This is called _____.

- a. Mei scattering
- b. Rely scattering
- c. Rayleigh scattering
- d. Atmospheric dispersion

20. The predominantly orange color of this rainbow is a result of Rayleigh scattering. (TRUE, FALSE)

