



## 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)

