Meteorology Test 7

Name:

- 1. What is the name of the troposphere's upper limit?
- The upper limit of the troposphere is the highest in (warm, cold) regions. It reaches a height of about ____ miles.
- The upper limit of the troposphere is the lowest in (warm, cold) regions. It reaches a height of about ____ miles.
- 4. Most weather on earth occurs in the troposphere, with only a few cumulonimbus clouds reaching into the stratosphere. Why is most weather confined in these boundaries?
- The temperature increases with altitude in the stratosphere because of _____.
 How does this help warm the atmosphere?
- 6. The average speed of molecules in the air is a measure of ______.
- 7. What is the difference between sensible and latent heat?
- 8. When liquid water evaporates, it (releases, absorbs) latent heat.
- 9. When water vapor condenses, it (releases, absorbs) latent heat.

- 10. _________ takes place when tiny droplets of condensed water vapor within a cloud merge to form larger raindrops. When the raindrops grow large enough, they fall from the sky as precipitation. This process is one of the _____ ways that precipitation can form.
- 11. What is the adiabatic lapse rate?
- 12. Meteorologically speaking, what is the opposite of lifting?
- 13. What is an air mass?
- 14. What air masses typically affect North America?
- 15. ____ air masses originate over the Gulf of Mexico.
- 16. ____ air masses originate over Canada and the Northern US.
- 17. What type of air mass affects Washington?
- 18. What type of air mass affects Kansas?
- 19. Kansas' severe weather often results from interactions between what two air masses?
- 20. Draw the three cell circulation model below:

- 21. Why are the areas between 30 degrees N/S and 35 degrees N/S called the horse latitudes?
- 22. Who discovered the Coriolis effect?