

Quiz 4

1. (p118) The development of thermals depends upon
 - a. a counterclockwise circulation of air
 - b. temperature inversions
 - c. solar heating

2. (p119) One of the most easily recognized discontinuities across a front is
 - a. a change in temperature
 - b. an increase in cloud coverage
 - c. an increase in relative humidity

3. (p119) What conditions are necessary for the formation of thunderstorms?
 - a. high humidity, lifting force, and unstable conditions
 - b. high humidity, high temperature, and cumulus clouds
 - c. lifting force, moist air, and extensive cloud cover

4. (p123) What is meant by the term "dewpoint?"
 - a. The temperature at which condensation and evaporation are equal.
 - b. The temperature at which dew will always form.
 - c. The temperature at which air must be cooled to become saturated.

5. (p124) The suffix "nimbus," used in naming clouds, means
 - a. a cloud with extensive vertical development
 - b. a rain cloud
 - c. a middle cloud containing ice pellets

6. (p126) What is a characteristic of stable air?
 - a. stratiform clouds
 - b. unlimited visibility
 - c. cumulus clouds

7. (p127) What are the characteristics of a moist, unstable air mass?
 - a. cumuliform clouds and showery precipitation
 - b. poor visibility and smooth air
 - c. stratiform clouds and showery precipitation

8. (p127) What would decrease the stability of an air mass?
 - a. warming from below
 - b. cooling from below
 - c. decrease in water vapor

9. (p137) To get a complete weather briefing for the planned flight, the pilot should request
 - a. a general briefing
 - b. an abbreviated briefing
 - c. a standard briefing

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10. (p139) For aviation purposes, "ceiling" is defined as the height above the Earth's surface of the
- lowest reported obscuration and the highest layer of clouds reported as overcast
 - lowest broken or overcast layer or vertical visibility into an obscuration
 - lowest layer of clouds reported as scattered, broken, or thin
11. (p139) (Refer to Figure 12) The wind direction and velocity at KJFK is from
- 180° true at 4 knots
 - 180° magnetic at 4 knots
 - 040° true at 18 knots
12. (p147) (Refer to Figure 15) What is the forecast wind for KMEM from 1600Z until the end of the forecast?
- no significant wind
 - variable in direction at 6 knots
 - variable in direction at 4 knots
13. (p149) (Refer to Figure 18) What is the status of the front that extends from Nebraska through the upper peninsula of Michigan?
- cold
 - stationary
 - warm