

Advanced Meteorology Fundamentals

Meteorology · Answer Key · 3 Questions

1. What characteristic primarily defines the tropopause, the boundary between the troposphere and the stratosphere?

- A) An abrupt increase in atmospheric pressure.
- B) A reversal of the temperature gradient from decreasing with altitude to increasing with altitude.**
- C) The complete absence of water vapor.
- D) The maximum concentration of ozone.

2. In the Northern Hemisphere, what is the typical direction of wind circulation around a surface low-pressure system?

- A) Clockwise and outward.
- B) Clockwise and inward.
- C) Counter-clockwise and outward.
- D) Counter-clockwise and inward.**

3. What term describes an atmospheric condition where a parcel of air, if lifted, becomes colder than the surrounding air and tends to sink back to its original position?

- A) Absolutely unstable.
- B) Conditionally unstable.
- C) Absolutely stable.**
- D) Neutrally stable.