

Fundamentals of Climatology

Climatology · Answer Key · 8 Questions

1. Which layer of the Earth's atmosphere is closest to the surface and contains most of the weather phenomena?

- A) Stratosphere
- B) Mesosphere
- C) Troposphere**
- D) Thermosphere

2. What is the primary source of energy that drives Earth's climate system?

- A) Geothermal energy
- B) Ocean currents
- C) The Sun**
- D) Volcanic eruptions

3. Which of the following gases is considered the most abundant in Earth's atmosphere?

- A) Carbon dioxide
- B) Oxygen
- C) Nitrogen**
- D) Argon

4. The average weather conditions in a particular region over a long period of time are known as:

- A) Meteorology
- B) Weather forecast
- C) Climate**
- D) Atmospheric pressure

5. What is the main greenhouse gas responsible for trapping heat in the Earth's atmosphere?

- A) Methane
- B) Water vapor
- C) Carbon dioxide**
- D) Nitrous oxide

6. The movement of heat from warmer regions to cooler regions in the atmosphere and oceans is called:

- A) Evaporation
- B) Precipitation
- C) Heat transfer**
- D) Condensation

7. Which term describes the process of water vapor changing into liquid water, often forming clouds?

- A) Evaporation
- B) Transpiration
- C) Sublimation
- D) Condensation**

8. The average annual temperature of a region is a key component of its:

- A) Wind speed
- B) Atmospheric humidity
- C) Climate classification**
- D) Cloud cover percentage