

Introduction to Meteorology

Meteorology · Practice Test · 18 Questions

1. What is the most abundant gas in Earth's atmosphere?

- A) Oxygen
- B) Carbon Dioxide
- C) Nitrogen
- D) Argon

2. Which layer of the atmosphere is closest to the Earth's surface and where most weather occurs?

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

3. What instrument is used to measure atmospheric pressure?

- A) Thermometer
- B) Anemometer
- C) Barometer
- D) Rain gauge

4. What causes wind?

- A) Earth's rotation
- B) Uneven heating of the Earth's surface
- C) The Moon's gravity
- D) Ocean currents

5. A visible mass of condensed water vapor or ice crystals suspended in the atmosphere is called a:

- A) Fog
- B) Cloud
- C) Hail
- D) Dew

6. Which type of cloud is typically associated with thunderstorms?

- A) Cirrus
- B) Cumulus
- C) Stratus
- D) Cumulonimbus

7. What is the process by which water changes from a liquid to a gas?

- A) Condensation
- B) Precipitation
- C) Evaporation
- D) Sublimation

8. What is the name for the average weather conditions in a particular region over a long period of time?

- A) Weather
- B) Atmosphere
- C) Climate
- D) Meteorology

9. Which phenomenon is characterized by lightning and thunder?

- A) Blizzard
- B) Hurricane
- C) Tornado
- D) Thunderstorm

10. What is the primary source of energy for Earth's weather systems?

- A) Geothermal heat
- B) The Moon
- C) The Sun
- D) Nuclear reactions in the Earth's core

11. An anemometer is used to measure:

- A) Temperature
- B) Wind speed
- C) Humidity
- D) Air pressure

12. What is the scientific study of the atmosphere and its phenomena called?

- A) Geology
- B) Oceanography
- C) Meteorology
- D) Astronomy

13. Which of the following is a form of precipitation?

- A) Fog
- B) Dew
- C) Frost
- D) Snow

14. What causes the Earth to have different seasons?

- A) The Earth's distance from the Sun
- B) The tilt of the Earth's axis
- C) The Moon's phases
- D) Changes in solar activity

15. Which layer of the atmosphere protects us from most of the Sun's harmful ultraviolet (UV) radiation?

- A) Troposphere
- B) Stratosphere
- C) Mesosphere
- D) Exosphere

16. What is the term for the amount of water vapor in the air?

- A) Temperature
- B) Wind
- C) Humidity
- D) Air pressure

17. Which weather hazard is a rapidly rotating column of air that extends from a thunderstorm to the ground?

- A) Hurricane
- B) Blizzard
- C) Tornado
- D) Hailstorm

18. What is the state of the atmosphere at a particular place and time?

- A) Climate
- B) Weather
- C) Atmosphere
- D) Meteorology