

CHAPTER-2 | Understanding the Weather

QUIZ-02

1. Which layer of the Earth's atmosphere is responsible for most weather phenomena?

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

Explanation : The troposphere is the lowest atmospheric layer where weather changes like rain, wind, and snow occur.

2. What instrument is used to measure atmospheric pressure?

- A. Thermometer B. Rain Gauge
C. Hygrometer D. Barometer (D)

Explanation : A barometer is used to measure atmospheric pressure in millibars (mb).

3. What is the unit of measurement for rainfall?

- A. Celsius B. Millibar
C. Millimetre D. Litre (C)

Explanation : Rainfall is measured in millimetres (mm) using a rain gauge.

4. Which of the following describes humidity?

- A. Speed of wind
B. Amount of rainfall
C. Water vapour in the air
D. Air pressure on mountains (C)

Explanation : Humidity refers to the amount of water vapour present in the air.

5. Which device measures wind speed and direction?

- A. Hygrometer B. Anemometer
C. Thermometer
D. Rain Gauge (B)

Explanation : An anemometer measures the speed and direction of the wind using rotating cups.

6. Which location is likely to have higher humidity?

- A. Jaipur B. Delhi
C. Kochi D. Jaisalmer (C)

Explanation : Kochi is near the sea, so it experiences higher humidity than inland locations.

7. What is the normal atmospheric pressure at sea level?

- A. 800 mb B. 1013 mb
C. 950 mb D. 1200 mb (B)

Explanation : The normal atmospheric pressure at sea level is about 1013 millibars (mb).

8. What is a hygrometer used for?

- A. Measuring rainfall
B. Measuring temperature
C. Measuring wind direction
D. Measuring humidity (D)

Explanation : A hygrometer is an instrument used to measure the humidity in the air.

9. What is the significance of an AWS (Automated Weather Station)?

- A. It predicts rainfall only
B. It forecasts earthquakes
C. It records weather data without human help
D. It works only in summer (C)

Explanation : AWS automatically collects and records multiple weather elements using sensors.

10. What weather condition usually causes a cyclone?

- A. High pressure system
B. Very high temperature
C. Low pressure system
D. Low humidity (C)

Explanation : A cyclone is often formed when a low-pressure system intensifies.