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Understanding Weather

The NCERT social science chapter understanding weather

Academic / Grade 7-SSc

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Question 1

During a humid summer day, the air temperature is 34°C. Why does it feel much hotter than the thermometer reading?

- ○ **A)** Sweat evaporates slowly due to high humidity
- ○ **B)** Wind speed increases body temperature
- ○ **C)** Air pressure becomes higher
- ○ **D)** Clouds trap underground heat

Question 2

Which weather instrument measures atmospheric pressure, helping predict approaching storms?

- ○ **A)** Hygrometer
- ○ **B)** Barometer
- ○ **C)** Thermometer
- ○ **D)** Rain Gauge

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Question 3

Which weather condition is most likely when warm, moist air rises rapidly and cools?

- **A)** Fog forms at ground level
- **B)** Strong sunshine continues
- **C)** Clouds develop due to condensation
- **D)** Air pressure permanently increases

Question 4

A weather report predicts 'low pressure moving towards the coast.' What should people expect?

- **A)** Stable weather for several days
- **B)** No change in wind direction
- **C)** Sudden drop in humidity
- **D)** Increased chances of clouds, rain and strong winds

Question 5

Why do meteorologists use satellites for weather forecasting?

- **A)** They observe clouds and storms over large areas
- **B)** They increase rainfall artificially
- **C)** They measure underground water
- **D)** They prevent cyclones

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Question 6

Which weather element directly influences the drying of wet clothes the most?

- **A)** Air pressure
- **B)** Wind speed
- **C)** Visibility
- **D)** Latitude

Question 7

Which layer of Earth's atmosphere experiences nearly all weather events?

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

Question 8

Why is a five-day weather forecast usually less accurate than tomorrow's forecast?

- **A)** Satellites stop collecting data
- **B)** Weather instruments become inaccurate
- **C)** Temperature cannot be measured ahead
- **D)** Small atmospheric changes grow larger over time

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Question 9

Which combination is essential for cloud formation?

- **A)** Moisture and cooling of air
- **B)** High air pressure only
- **C)** Dry winds only
- **D)** Strong sunlight only

Question 10

Which instrument is used specifically to measure rainfall?

- **A)** Barometer
- **B)** Rain Gauge
- **C)** Hygrometer
- **D)** Wind Vane

Question 11

Which weather situation is most likely before a thunderstorm?

- **A)** Clear skies and rising pressure
- **B)** Cold dry air descending
- **C)** Warm humid air rising rapidly
- **D)** Strong snowfall begins immediately

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Question 12

Which weather element mainly determines the direction in which smoke from a factory moves?

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

Question 13

Why is humidity usually higher near oceans than inland deserts?

- **A)** Continuous evaporation adds moisture to the air
- **B)** Air pressure is always lower
- **C)** Deserts have stronger gravity
- **D)** Oceans produce more oxygen

Question 14

Which instrument measures the amount of moisture present in the air?

- **A)** Thermometer
- **B)** Hygrometer
- **C)** Anemometer
- **D)** Barometer

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Question 15

Which statement correctly distinguishes weather from climate?

- **A)** Climate changes every hour
- **B)** Weather always remains constant
- **C)** Climate is the average weather over many years
- **D)** Weather describes conditions over decades

Question 16

Which weather condition would most likely cause flights to be delayed?

- **A)** Bright sunshine
- **B)** Mild breeze
- **C)** Comfortable humidity
- **D)** Dense fog reducing visibility

Question 17

Why do farmers regularly check weather forecasts before sowing crops?

- **A)** To choose the best time for planting and irrigation
- **B)** To predict earthquakes
- **C)** To measure soil minerals
- **D)** To estimate population growth

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Question 18

Which weather element is measured using an anemometer?

- **A)** Humidity
- **B)** Wind speed
- **C)** Rainfall
- **D)** Air pressure

Question 19

A coastal city receives heavy rainfall although temperatures are moderate. What is the best explanation?

- **A)** Temperature alone controls rainfall
- **B)** Air pressure never changes
- **C)** Moisture availability is more important than temperature alone
- **D)** Rainfall depends only on altitude

Question 20

Why do weather departments collect data from thousands of stations instead of only one?

- **A)** One station is enough for global forecasts
- **B)** To compare historical monuments
- **C)** To calculate Earth's age
- **D)** Weather systems move across regions and require widespread observations

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