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# CLASS – 7

## SOCIAL SCIENCE

### Exploring Society : India and Beyond

### CH –2
### Understanding the Weather

Part – 6

Exercise

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# EXERCISE





**1** Match the instrument with the weather element it measures.

| Instrument used | Element of the Weather |
|---|---|
| 1. Hygrometer | a. Precipitation |
| 2. Anemometer | b. Atmospheric pressure |
| 3. Barometer | c. Wind direction and speed |
| 4. Thermometer | d. Humidity |
| 5. Rain gauge | e. Temperature |



**Answer :**

| Instrument used | Element of the Weather |
|---|---|
| 1. Hygrometer | d. Humidity |
| 2. Anemometer | c. Wind direction and speed |
| 3. Barometer | b. Atmospheric pressure |
| 4. Thermometer | e. Temperature |
| 5. Rain gauge | a. Precipitation |



2 Jyotsna is deciding what clothes to pack for her school trip to Mumbai in June. She looks at the weather forecast, which predicts 29°C and 84% humidity. What would be your advice to her?



**2** Jyotsna is deciding what clothes to pack for her school trip to Mumbai in June. She looks at the weather forecast, which predicts 29°C and 84% humidity. What would be your advice to her?

**Answer :**

☛ Jyotsna should pack light, breathable, and loose cotton clothes to stay cool and comfortable.

# EXERCISE





- Since the temperature is warm (29°C) and humidity is high (84%), she may sweat more, so she should also carry a cap, water bottle, and deodorant or wipes to stay fresh.
  - High humidity makes sweating more likely and evaporation slower, especially in coastal areas like Mumbai.

# EXERCISE





3

Imagine that a small group of students is setting up a rain gauge.

Here are some options for the site.

1. The school vegetable garden.
2. The terrace of the school building.
3. Open ground with elevated platform.
4. Compound wall of school.
5. Verandah of the school laboratory

Discuss in your group and finalise the site.

Write down the reasons for your decision



**Answer :**

The best site to place the rain gauge is :

3. Open ground with elevated platform.

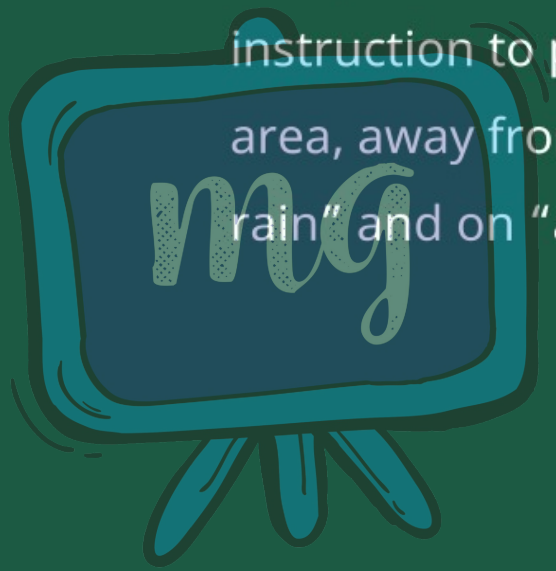
**Reasons:**

- It is in an open area, so no walls, trees, or buildings will obstruct the rain.
- The elevated platform ensures it remains stable and does not collect surface runoff.

# EXERCISE







- The placement aligns with the PDF instruction to place the gauge in “an open area, away from objects that might obstruct rain” and on “a flat surface”.

# EXERCISE





Below is a chart taken from IMD, Jammu and Kashmir. Looking at the data available, write a short script to report the weather conditions in different parts of Jammu and Kashmir on the date shown. (Hint: Cover the temperature range, maximum and minimum temperatures, humidity, precipitation, etc.)

## Daily Weather Parameters

## Jammu & Kashmir (EVENING) ; DATE: 01-02-2024

| Station | max temperature of date | | | min temperature of date | | | from 0830 to 1730 hrs (mm/cm) | | 24 hrs R/F ending 0830 of date (mm/cm) | | Relative humidity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ACT (°C) | NOR (°C) | DEP (°C) | ACT (°C) | NOR (°C) | DEP (°C) | R/F (mm) | S/N (cm) | R/F | S/N | 0830 (%) | 1730 (%) |
| Srinagar | 6.5 | 8.9 | −2.4 | 0.2 | −0.7 | 0.9 | TR | 0.0 | 13.4 | 2.4 | 89 | 89 |
| Qazigund | 3.2 | 8.5 | −5.3 | −0.4 | −2.1 | 1.7 | 11.8 | 10.0 | 36.2 | 22.0 | 97 | 90 |
| Pahalgam | 1.1 | 5.6 | −4.5 | −4.1 | −6.1 | 2.0 | 6.0 | 8.0 | 19.4 | 23.0 | 96 | 96 |

| Station | max temperature of date | | | min temperature of date | | | from 0830 to 1730 hrs (mm/cm) | | 24 hrs R/F ending 0830 of date (mm/cm) | | Relative humidity | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ACT (°C) | NOR (°C) | DEP (°C) | ACT (°C) | NOR (°C) | DEP (°C) | R/F (mm) | S/N (cm) | R/F | S/N | 0830 (%) | 1730 (%) |
| Kupwara | 5.1 | 8.5 | −3.4 | −0.7 | −2.3 | 1.6 | 0.5 | 0.0 | 21.9 | 10.0 | 97 | 94 |
| Kukernag | 2.6 | 6.6 | −4.0 | −1.4 | −2.4 | 1.0 | 12.0 | 8.0 | 35.2 | 30.0 | 96 | 97 |
| Gulmarg | −2.6 | 1.4 | −4.0 | −7.6 | −7.6 | 0.0 | 8.2 | 6.35 | 35.2 | 35.0 | 76 | 100 |
| Muzafarabad | 8.5 | – | – | 5.6 | – | – | – | – | 25.8 | – | 93 | – |

# EXERCISE





**Note:** ACT means actual; NOR means normal; DEP is departure from normal; R/F is rainfall; S/N is snowfall; TR means trace amount.