

## **Weather And Climate**

### **Exercises**

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#### **Short answer questions:**

1. What are the atmospheric conditions which influence weather? Mention any four.
2. What causes winds to blow?
3. List the names of some local winds and the countries where they blow.
4. Define a cyclone. In which direction does the wind move in a cyclone?
5. How do seasonal monsoon winds occur?

## Solutions

### Short-answer questions:

1. Air pressure, temperature, wind, cloud, moisture, rain (*any four*).
2. Moving air is called wind. There is uneven heating of the earth's surface as some areas receive the direct rays of the Sun and other places the slanting rays. Warm air over warmer surfaces being lighter rises. This creates a low pressure. Then cooler air moves in from high pressure areas. This movement of air causes the wind to blow.
3. Chinook-USA, Canada; Foehn-Alps Switzerland, Italy; Loo-north India; Bora- Italy; Mistral-France; Pampero-Argentina.
4. A cyclone is a huge storm that originates overseas. It is characterized by a low pressure centre and strong winds with speed of around 250 kms per hour spiraling inward and upward. They develop in the wind used belt between latitudes 5° and 20° North and South of-the equator:
5. Monsoon winds that are experienced during June to September are actually land and sea breezes on a larger scale. In summer the landmasses warm up faster and air over the land gets heated and rises creating a low pressure area. Winds from the oceans blow onto the heated continent.