

Evaporation and Its Factors

1. A traveller notices that wet clothes dry quickly in a dry desert region but take longer to dry in a humid coastal region under similar temperature and wind conditions.

- a) Name the factor responsible for this difference.
- b) In which region is the rate of evaporation higher?
- c) Explain why high humidity slows down evaporation.

2. Student places equal amounts of water in two identical dishes. Dish A is kept under a fan, while Dish B is kept in a closed cupboard. After one hour, Dish A contains less water.

- a) Identify the factor responsible for the difference.
- b) Explain why Dish A loses more water.
- c) Mention one condition that should be kept the same for a fair comparison.

3. Teacher observes that water in a shallow dish decreases faster than water in a narrow bottle. A student argues that the water has disappeared because it has been absorbed by the containers.

- a) Identify the more likely process responsible for the decrease in water.
- b) How can the student check whether the water has been absorbed or evaporated?

4. Student observes water disappearing from an open bowl at room temperature. Another student observes bubbles forming throughout water heated in a saucepan.

- a) Identify both processes.
- b) State two differences between them.