Evaporation and Its Role in Nature A. Choose the correct answer:

- 1. What is evaporation?
 - a) Conversion of liquid into solid
 - b) Conversion of liquid into gas
 - c) Conversion of gas into liquid
 - d) Conversion of solid into gas
- 2. Which factor increases the rate of evaporation?
 - a) High humidity
 - b) Decrease in temperature
 - c) Increase in surface area
 - d) Less wind movement
- 3. Why does sweating help cool down the human body?
 - a) Because it absorbs heat and evaporates
 - b) Because it blocks sunlight
 - c) Because it adds moisture to the air
 - d) Because it increases body temperature

B. Fill in the Blanks:

1.	is the process by which a liquid changes in	nto vapor at the surfac	e
2.	The rate of evaporation increases with an increase in _	and	
3.	Evaporation plays an important role in the	cvcle.	

C. Case Study:

Ravi observed that after washing clothes, they dried faster in the sun than on a cloudy day. He also noticed that water spilled on the floor dried more quickly when a fan was turned on. Curious, he decided to investigate further by placing three bowls of water in different conditions:

- Bowl A was kept under direct sunlight.
- **Bowl B** was placed in a shaded, cool area.
- **Bowl C** was kept under a fan.

After a few hours, he measured the remaining water and found that Bowl A had the least amount of water left, followed by Bowl C, while Bowl B had the most.

Questions & Answers:

1. What natural phenomenon was Ravi observing in this experiment?

- 2. Why did the water in Bowl A evaporate faster than in Bowl B?
- 3. What role did the fan play in Bowl C's evaporation rate?
- 4. Based on Ravi's experiment, what are the main factors that affect evaporation?

D. Short Answer Questions:

- 1. What is evaporation, and how does it occur?
- 2. Why does water evaporate faster on a hot, dry day compared to a humid day?
- 3. How does wind speed influence the rate of evaporation?

E. Long Answer Questions:

- 1. Explain how evaporation is an essential part of the water cycle and its impact on weather patterns.
- 2. Describe the factors that influence evaporation and provide examples from daily life.
- 3. Discuss how evaporation helps in cooling processes, such as perspiration in humans and the cooling of water bodies.