Teacher Answer Key

Case Study

1. Warming temperatures and nutrient runoff have led to algal blooms and shifts in fish distribution, impacting local fishing.

2. It hosts thousands of unique (endemic) species much like the Galapagos, making it a hotspot of evolutionary study.

Multiple Choice

1. B

2. D

3. C

Matching

1-D, 2-E, 3-B, 4-A, 5-C

Fill-in-the-Blank

1) Lake Baikal, 2) watershed, 3) water cycle

Short Answer (Sample Responses)

Q1: Excessive pumping of aquifers can lower water tables, harm local ecosystems, and jeopardize future water availability.

Q2: Dams reduce natural flood cycles and sediment flow, potentially degrading wetlands, riverbanks, and downstream habitats.

Q3: Warm ocean currents can increase humidity and storm formation, while cold currents may stabilize local climates by reducing evaporation.