Teacher Answer Key

Case Study

1. Fertilizer and sediment runoff from nearby farms led to excessive nutrient levels, causing algal blooms and fish kills.

2. Buffer zones, reintroducing aquatic plants, and aerating the water helped restore oxygen levels and overall water quality.

Multiple Choice

1. D

2. D

3. B

Matching

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

Fill-in-the-Blank

1) Glacial, 2) Tectonic, 3) algal

Short Answer (Sample Responses)

Q1: Lakes have relatively slow water turnover, so pollutants can accumulate and disrupt the ecosystem.

Q2: Reservoirs provide water storage, flood control, and power but can alter water flow, temperature, and displace wildlife or communities.

Q3: They can limit fertilizer use, maintain riparian buffers, manage wastewater, and monitor water quality to prevent pollution.