Teacher Answer Key

Case Study

1. Warm surface waters and stratification block oxygen mixing, worsening low oxygen.

2. Freshwater reduces surface density, intensifying stratification.

Multiple Choice

1. C

2. D

3. B

Matching

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

Fill-in-the-Blank

1) Salinity, 2) Thermocline, 3) Density

Short Answer (Sample Responses)

Q1: Higher salinity and lower temperature increase density, driving circulation.

Q2: The ocean absorbs heat in summer and releases it in winter, moderating climate.

Q3: Human nutrient runoff interacts with stratification, salinity, and temperature to create oxygen loss.