Teacher Answer Key

Case Study

1. Phytoplankton absorb large amounts of CO_2, helping regulate climate.

2. Copepods graze on phytoplankton, gaining energy that supports higher predators.

Multiple Choice

1. A

2. B

3. A

Matching

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

Fill-in-the-Blank

1) sunlight, 2) krill (or: phytoplankton), 3) fisheries

Short Answer (Sample Responses)

Q1: Nutrient scarcity prevents phytoplankton growth, despite sunlight.

Q2: Warming alters stratification and circulation, disrupting bloom timing.

Q3: They provide massive productivity that sustains fisheries and local economies.