Teacher Answer Key

Case Study

1. Rising temperatures stress corals, causing them to expel their algae and lose their color and energy source.

2. Massive coral loss reduces biodiversity and damages tourism and fishing industries, while also impacting Indigenous cultural ties.

Multiple Choice

1. C

2. C

3. B

Matching

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

Fill-in-the-Blank

1) zooxanthellae, 2) bleaching, 3) Great

Short Answer (Sample Responses)

Q1: Warming causes bleaching, acidification weakens skeletons, and pollution adds stress.

Q2: Reefs host about 25% of marine species despite covering less than 1% of the ocean floor.

Q3: Local: reduce pollution or establish MPAs; Global: cut greenhouse gas emissions.