Teacher Answer Key

Case Study

1. Algae provide sugars/oxygen via photosynthesis; corals provide shelter and CO_2.

2. Reefs build habitat, slow waves, support fisheries/tourism, protect coasts.

Multiple Choice

1. B

2. D

3. A

Matching

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

Fill-in-the-Blank

1) zooxanthellae, 2) exoskeleton, 3) recycling

Short Answer (Sample Responses)

Q1: Invertebrates filter water, recycle nutrients, serve as prey/predators; they underpin food webs.

Q2: Examples: shells (physical defense), toxins (chemical deterrence), camouflage/ink (avoid detection).

Q3: Overfishing, pollution, and warming reduce populations; food webs destabilize and biodiversity declines.