Teacher Answer Key

Case Study

1. Without sea stars, mussels overpopulated and crowded out other species.

2. Environmental stressors like warming oceans and pathogens likely contributed.

Multiple Choice

1. D

2. C

3. B

Matching

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

Fill-in-the-Blank

1) Madreporite, 2) Calcium carbonate, 3) Internal organs

Short Answer (Sample Responses)

Q1: Tube feet attach and apply steady hydraulic pressure until the shell opens.

Q2: Overgrazing by urchins destroys kelp forests, reducing habitat and biodiversity.

Q3: Echinoderm regeneration may provide insight into tissue repair and human healing.