Teacher Answer Key

Case Study

1. Synchronization increases fertilization success, reduces gamete loss to predators.

2. Climate change, warming water, and acidification disrupt timing and gamete survival.

Multiple Choice

1. A

2. C

3. A

Matching

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

Fill-in-the-Blank

1) eggs, 2) budding, 3) moon

Short Answer (Sample Responses)

Q1: Producing many eggs ensures at least some survive predators/environmental risks.

Q2: Larval dispersal prevents overcrowding and allows colonization of new areas.

Q3: Broadcast spawning produces many offspring with low survival; brooding protects few with higher survival odds.