## Teacher Answer Key

**Case Study**

1. They needed expert insight on seismic risks to safeguard terrace infrastructures and manage post-earthquake land stability.

2. They strengthened terrace walls with better materials and chose crops more resistant to shifting ground.

**Multiple Choice**

1. B

2. A

3. D

**Matching**

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

**Fill-in-the-Blank**

1) crust, 2) lithosphere, 3) collision

**Short Answer (Sample Responses)**

Q1: The crust exchanges gases and water through volcanic activity and erosion processes, influencing climate and weather patterns, while also providing nutrients that enter food webs.

Q2: It explains why certain areas have mountain ranges and others have deep ocean basins, guiding our understanding of plate movements and geological phenomena like volcanoes and earthquakes.

Q3: Activities like mining and dam construction can destabilize rock layers, cause erosion, or alter water tables, leading to potential landslides and habitat disruption.