Teacher Answer Key

Case Study

1. Mining removed sand faster than natural processes could replace it, destabilizing cliffs and beaches.

2. Officials introduced dune vegetation, placed offshore rocks to lessen wave impact, and used beach nourishment techniques.

Multiple Choice

1. C

2. D

3. A

Matching

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

Fill-in-the-Blank

1) rock, 2) soil, 3) divergent

Short Answer (Sample Responses)

Q1: The geosphere provides raw materials and shapes landscapes; understanding it allows for balanced extraction and risk mitigation.

Q2: Volcanic ash enriches soils and can offer geothermal energy, yet eruptions pose threats from lava, ash clouds, and pyroclastic flows.

Q3: Soil anchors plants, recycles nutrients, and filters water, making it critical for ecosystems and agriculture.