Teacher Answer Key

Case Study

1. Overgrazing led to soil erosion, reduced vegetation, and sediment-laden streams affecting water supplies.

2. Reduced grazing, terracing, and replanting native species helped stabilize soil and restore plant cover.

Multiple Choice

1. A

2. C

3. A

Matching

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

Fill-in-the-Blank

1) Tundra (or Arctic), 2) Permafrost, 3) Alpine

Short Answer (Sample Responses)

Q1: Permafrost keeps roots shallow and poses engineering challenges—when it thaws, buildings and roads can crack.

Q2: Warming leads to thawed permafrost, releasing stored carbon and shifting habitats, drastically affecting wildlife and local communities.

Q3: They can manage grazing, monitor local changes, and support restoration projects, ensuring sustainable use of tundra resources.