Teacher Answer Key

Case Study

1. Thawing permafrost undermines building foundations and infrastructure, causing structural instability.

2. Some places reinforce or cool the ground; relocation is also an option, though expensive and disruptive.

Multiple Choice

1. A

2. D

3. B

Matching

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

Fill-in-the-Blank

1) Polar, 2) Permafrost, 3) tundra

Short Answer (Sample Responses)

Q1: The cold air holds little moisture, so snowfall is relatively sparse, leading to low precipitation totals.

Q2: They depend on sea ice to hunt seals; reduced ice cover shortens their hunting season and depletes resources.

Q3: Melting ice shelves can speed up glacier flow, raising sea levels and affecting coastal areas worldwide.