Teacher Answer Key

Case Study

1. GIS combined satellite images and GPS updates to create real-time maps showing damaged roads, available shelters, and other critical resources.

2. Planners can analyze damage patterns, population distributions, and infrastructure needs to rebuild more resilient roads and buildings for the future.

Multiple Choice

1. D

2. A

3. B

Matching

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

Fill-in-the-Blank

1) Globe, 2) satellite, 3) GIS

Short Answer (Sample Responses)

Q1: Globes are too bulky for detailed regional studies and do not allow zooming in on small locations or street-level details.

Q2: A business could overlay demographic data with store locations to identify profitable expansion areas or target marketing campaigns more effectively.

Q3: Researchers can fit animals with tracking devices, gather GPS data on their movements, and analyze migration routes or habitat preferences in precise detail.