Teacher Answer Key

Case Study

1. It demonstrated deep-sea engineering while collecting valuable biological and geological data.

2. Engineers must design pressure-resistant hulls, advanced life-support systems, and reliable communication tools.

Multiple Choice

1. C

2. B

3. D

Matching

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

Fill-in-the-Blank

1) Challenger, 2) Chemosynthesis, 3) Deepsea

Short Answer (Sample Responses)

Q1: It collected global data systematically, setting standards for modern research.

Q2: Alvin enabled direct observation of deep-sea ecosystems and explored famous wrecks like the Titanic.

Q3: Its extreme depth, crushing pressure, and remoteness make exploration technically difficult and costly.