Teacher Answer Key

Case Study

1. Small, crowded apartment; windows closed; long indoor exposure; shared snacks and games; a clearly sick guest staying and interacting closely with others.

2. Open some windows or improve airflow, shorten the indoor portion, encourage sick guests to stay home, provide hand sanitizer, or move part of the gathering outside if possible.

Multiple Choice

1. C

2. B

3. D

Matching

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

Fill-in-the-Blank

1) respiratory, 2) replicate (accept: reproduce), 3) immune

Short Answer (Sample Responses)

Q1: Example: Transmission route—droplet/aerosol while singing indoors; action—open windows, use fans, or keep the group smaller to improve ventilation and reduce contact.

Q2: Chronic stress and poor sleep can raise cortisol and strain the body, making some immune responses less effective and leaving you more vulnerable to infections or slower recovery.

Q3: Possible steps: limit the guest list, crack windows or use air purifiers, encourage anyone who feels sick to stay home, schedule events earlier so people aren't exhausted, and make handwashing or sanitizer easy before eating.