Teacher Answer Key

Case Study

1. The lifeguards provided free sunscreen and short educational talks on proper use, along with public announcements about sun safety.

2. Zinc-based sunscreen may be less irritating and more comfortable, encouraging individuals to apply it more frequently.

Multiple Choice

1. D

2. B

3. A

Matching

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

Fill-in-the-Blank

1) UVB, 2) Melanin, 3) DNA polymerase

Short Answer (Sample Responses)

Q1: Broad-spectrum sunscreen covers both UVA and UVB rays, preventing sunburn, DNA damage, and premature aging.

Q2: Programs like free sunscreen stations, educational talks, and school outreach inform people about risks and encourage preventative habits.

Q3: Correct and consistent application, reapplication after swimming, and complementing sunscreen with hats, clothing, and shade can significantly reduce skin damage risk.