Teacher Answer Key

Case Study

1. Despite resources, some fairgoers underestimated their own heat exposure or didn't hydrate/seek shade frequently, leading to ongoing symptoms.

2. Asphalt reflected additional heat, elevating ambient temperatures for those standing or walking on it for long durations.

Multiple Choice

1. C

2. A

3. D

Matching

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

Fill-in-the-Blank

1) Homeostasis, 2) electrolytes, 3) heatstroke

Short Answer (Sample Responses)

Q1: High humidity slows sweat evaporation, causing heat to linger on the skin and raising body temperature more quickly.

Q2: Initiatives like cooling centers, water distribution, and awareness campaigns help reduce the number of heat-related hospital visits.

Q3: Regular, moderate drinking helps maintain stable blood volume and electrolyte levels, preventing drastic dehydration swings.