Teacher Answer Key

Case Study

1. Planting younger seedlings singly and managing water through alternate wetting and drying reduced water use.

2. Women spent less time in flooded fields and shifted to value-added roles like rice polishing and market sales.

Multiple Choice

1. B

2. C

3. D

Matching

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

Fill-in-the-Blank

1) dwarf wheat/rice, 2) input waste, 3) fewer inputs

Short Answer (Sample Responses)

Q1: Benefit: less water usage; Drawback: more labor for weeding and management.

Q2: By using sensor data, farmers can optimize input application, lowering costs and increasing yields.

Q3: By stacking trays indoors under LED lights, vertical farms grow produce in urban areas with limited arable land.