ANSWER KEY

**Part 1: Vocabulary Matching**

*Match each term to its correct definition*

C

1. Shows variation in crop productivity across a field
2. Equipment that applies varying input across a field
3. Technology based farm management using spatial data
4. Turns off planter or sprayer sections to avoid overlap
5. Collecting soil data to analyze nutrient and pH levels
6. Helps operators steer accurately using GPS
7. Uses satellite, drone, or plane imagery for decisions
8. Displays live harvest data from specific field areas

\_\_\_ Precision Agriculture

H

\_\_\_ Yield Monitor

E

\_\_\_ Soil Sampling

F

\_\_\_ Guidance System

B

\_\_\_ Variable Rate Technology

D

\_\_\_ Section Control

G

\_\_\_ Remote Sensing

A

\_\_\_ Soil/Yield Map

**Part 2: Fill in the blank**

*Complete each sentence using a term from the word bank (not all words are used)*

**Word Bank**

Autosteer Satellite 1990s RTK Manual Sustainability 1950s Imagery pH Sprayer

Satellite

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ imagery allows farmers to detect crop health issues from above

1990s

1. Precision agriculture became more common starting in the \_\_\_\_\_\_\_\_\_
2. Guidance systems that steer the tractor for the operator are called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Autosteer

Sprayer

1. A \_\_\_\_\_\_\_\_\_\_ is a piece of equipment that applies pesticides or fertilizers.

Sustainability

1. Precision agriculture helps support \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by minimizing input waste.

**Part 3: Short Answer**

1. What is the main difference between traditional farming and precision farming?

Sample Answer: Traditional farming treats the entire field the same, while precision farming tailors management to different zones based on data

1. Why is understanding variability within a field important for farmers?

Sample Answer: Understanding variability helps farmers apply the right amount of inputs in the right places, improving efficiency and reducing waste

1. How do soil and yield maps help farmers make better decisions?

Soil and yield maps help identify trends and underperforming areas, guiding better decisions for inputs and management.