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\_\_\_\_\_ 1. Electronic technology consists of hardware and software.

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\_\_\_\_\_ 2. Sensors take signals from a monitor, interprets changes that need to be made and then send

the signal to the meter to make the corrections.

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\_\_\_\_\_ 3. Precision Ag maps are put together in sections, starting with yield.

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\_\_\_\_\_ 4. Electronic collars can track such things as feed intake and milk output in livestock.

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\_\_\_\_\_ 5. The three main types of software used in Precision Agriculture are monitors, sensors and

meters.

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***Matching Section - Match each vocabulary word in the column on the left with its proper definition from the column on the right.***

\_\_\_\_\_ Inputs 6. Mechanical equipment used in Precision Agriculture.

\_\_\_\_\_ Precision Ag Maps 7. A complex and highly technical array of sensors used in precision

planting.

\_\_\_\_\_ Hardware 8. Scale, hygrometer, thermometer and laser.

\_\_\_\_\_ Software 9. Seed, irrigation, fertilizer, herbicide, fungicide.

\_\_\_\_\_ Sensors 10. Computer programs used in Precision Agriculture.

\_\_\_\_\_ SmartFirmer 11. Yield, subsoil moisture, organic matter, fertilizer and irrigation

application.

***Multiple Choice Section - Reach each question or statement carefully. Circle the correct answer OR answers from the choices below each question.***

12. Things specifically related to seeds that can be changed using Precision Agriculture include:

a. Variety b. Spacing c. Moisture d. Depth

13. An agricultural producer can minimize the risk to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by reducing nitrate

leaching and runoff.

a. himself b. livestock

c. human lungs d. the environment

14. Because of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, an ag producer doesn’t have to farm a lot of acres to use

Precision Agriculture.

a. diversity b. scalability

c. singulation d. flow

15. A GPS receiver gets its information from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. sensors b. the Internet

c. Earth-orbiting satellites d. drones

***Short Answer/Fill-in-the-Blank Section - Read each statement or question carefully. Fill in the blanks with the correct answers or write the correct response in the space provided below each question.***

16. Name 2 things that can be “sensed” in an animal’s body by using Precision Agriculture.

17. A moisture \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ measures the amount of moisture in grain.

18. A flow \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ works with flow sensors to control the amount of fluid that is

allowed to flow through a sprayer.

19. Using the words provided as well as arrows, draw the proper flow of a “simple delivery system” in

the proper order.

*Application Device*

*Flow Meter*

*Flow Sensor*

*Pump*

*Supply Tank*

|  |
| --- |
| ***Note: Draw your “diagram” in the space below.*** |

20. What are two things related to irrigation that can be controlled using Precision Agriculture?

21. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ allows a field to be surveyed with ease.

22. Precision Agriculture helps an ag producer make more informed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

23. An ag producer does not have to buy all new \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in order to use Precision

Agriculture.

24. It may take a very long time to gather the needed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to implement Precision Agriculture.

25. It may be difficult for older producers to learn to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the information

provided by Precision Agriculture.