

Associates of Agriculture (AG) Certification Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

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- 1. In which area do most employment opportunities for agriscience college graduates typically exist?**
 - A. Research and Development**
 - B. Marketing, merchandising, and sales representatives**
 - C. Soil Conservation**
 - D. Agricultural Engineering**
- 2. What is the term for the union of pollen and the stigma?**
 - A. Fertilization**
 - B. Pollination**
 - C. Germination**
 - D. Hybridization**
- 3. Which of the following is not part of the scientific method?**
 - A. Form a hypothesis**
 - B. Collect data**
 - C. Make predictions**
 - D. Assume a result**
- 4. Which tool would you use for gripping wood, metal, or plastic?**
 - A. Socket wrench**
 - B. Screwdriver**
 - C. Pliers**
 - D. Hammer**
- 5. What is an example of an animal byproduct?**
 - A. Milk from dairy cows**
 - B. Eggs from chickens**
 - C. Bone, Hide, Gelatin**
 - D. Fleeces from sheep**
- 6. What is the term for an unprepared speech?**
 - A. Prepared**
 - B. Extemporaneous**
 - C. Impromptu**
 - D. Scripted**

- 7. Which swine breed is white with erect ears and is the most common and prolific swine breed?**
- A. Landrace**
 - B. Yorkshire**
 - C. Duroc**
 - D. Berkshire**
- 8. What is the first degree an FFA member earns?**
- A. Discovery**
 - B. Explorer**
 - C. Journey**
 - D. Initiation**
- 9. What type of cuts does a coping saw make?**
- A. Straight cuts in metal**
 - B. Curved cuts in wood**
 - C. Diagonal cuts in plastic**
 - D. Straight cuts in wood**
- 10. What is the purpose of herbicides in agriculture?**
- A. To enhance soil fertility**
 - B. To kill weeds**
 - C. To promote plant growth**
 - D. To accelerate photosynthesis**

Answers

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1. B
2. B
3. D
4. C
5. C
6. B
7. B
8. A
9. B
10. B

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Explanations

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1. In which area do most employment opportunities for agriscience college graduates typically exist?

A. Research and Development

B. Marketing, merchandising, and sales representatives

C. Soil Conservation

D. Agricultural Engineering

Most employment opportunities for agriscience college graduates typically exist in the area of marketing, merchandising, and sales representatives. This sector plays a crucial role in the agricultural industry, as it involves the promotion and sale of agricultural products and services. Graduates who focus on this area can leverage their knowledge of agriscience to effectively communicate the value of products to farmers, suppliers, and consumers, ensuring that agricultural innovations reach the market. Professionals in this field are essential in bridging the gap between producers and consumers, helping to facilitate the distribution of goods ranging from seeds and fertilizers to advanced machinery and technology. Their work directly impacts how agricultural advancements are received in the market, making them key contributors to the overall success of agribusinesses. While research and development, soil conservation, and agricultural engineering are important fields within agriscience, they often involve specialized roles that may not offer as broad or varied a range of opportunities directly after college compared to marketing and sales. Those areas may require additional education or experience, making marketing, merchandising, and sales a more accessible entry point for recent graduates.

2. What is the term for the union of pollen and the stigma?

A. Fertilization

B. Pollination

C. Germination

D. Hybridization

The correct term for the union of pollen and the stigma is pollination. In the process of pollination, pollen grains, which contain the male gametes, are transferred from the male part of a flower (the anther) to the female part (the stigma). This key plant reproductive process is essential for fertilization to occur, as it allows the sperm cells within the pollen to fertilize the ovules in the ovary, leading to seed formation. Understanding this concept is fundamental in the study of plant biology and agriculture, as pollination is critical for the production of many crops and subsequent agricultural yield. This process can be facilitated by various agents, including wind, water, and animals, particularly bees and other pollinators. The other terms relate to different aspects of plant reproduction: fertilization follows pollination, where the actual fusion of gametes occurs; germination refers to the process by which a seed develops into a new plant; and hybridization involves the crossing of different plant varieties or species to produce a hybrid. Each of these processes plays a distinct role in the life cycle of plants but does not define the initial event of pollen transfer to the stigma, which is specifically termed pollination.

3. Which of the following is not part of the scientific method?

- A. Form a hypothesis
- B. Collect data
- C. Make predictions
- D. Assume a result**

The scientific method is a structured approach to problem-solving and inquiry that involves several key steps designed to ensure that findings are based on evidence and can be tested. Among the primary steps are forming a hypothesis, collecting data, and making predictions. When conducting scientific research, forming a hypothesis involves making an educated guess or statement that can be tested through experimentation. Collecting data is crucial as it provides the evidence needed to support or refute the hypothesis. Making predictions is another critical aspect, as it involves forecasting what might happen based on the hypothesis, which can then be tested for accuracy. In contrast, assuming a result does not align with the principles of the scientific method. Science relies on empirical evidence rather than assumptions. Claims need to be tested and verified rather than taken for granted. Therefore, assuming a result bypasses the rigorous testing and validation that characterizes scientific inquiry, making it distinctly different from the other components of the scientific method. This focus on testing and evidence is fundamental to ensuring that scientific conclusions are reliable and based on factual data rather than presumption.

4. Which tool would you use for gripping wood, metal, or plastic?

- A. Socket wrench
- B. Screwdriver
- C. Pliers**
- D. Hammer

Pliers are specifically designed to grip objects securely, making them suitable for handling materials such as wood, metal, or plastic. Their design features two handles that, when squeezed together, allow the user to exert significant force, ensuring a firm grip on the material. This versatility makes pliers an essential tool for numerous tasks, including bending, twisting, and holding objects in place. In contrast, a socket wrench is primarily used for turning nuts and bolts, and while it does provide grip, it is not ideal for gripping flat or irregularly shaped materials. A screwdriver is used to drive screws into surfaces but lacks the necessary gripping ability needed for larger materials. A hammer is designed for striking and driving nails rather than gripping, making it unsuitable for this particular purpose. Therefore, pliers stand out as the correct option due to their gripping capability across various materials.

5. What is an example of an animal byproduct?

- A. Milk from dairy cows**
- B. Eggs from chickens**
- C. Bone, Hide, Gelatin**
- D. Fleeces from sheep**

An example of an animal byproduct is bone, hide, and gelatin. These products are derived from animals after they have been processed for meat or other primary uses. Byproducts are materials left over after the main products have been extracted and often have significant value in various industries. Bone can be processed to create items such as bone meal or broth, hides can be tanned to produce leather goods, and gelatin is used in food items, pharmaceuticals, and cosmetics. Milk, while an important product from dairy cows, is not considered a byproduct because it is a primary output of dairy farming. Similarly, eggs are produced specifically for consumption and constitute a primary agricultural product from chickens rather than a byproduct. Fleeces from sheep are also considered primary products as they are harvested intentionally for wool production. In contrast, bone, hide, and gelatin highlight the various uses of all parts of an animal, showcasing how industries can maximize resources and reduce waste.

6. What is the term for an unprepared speech?

- A. Prepared**
- B. Extemporaneous**
- C. Impromptu**
- D. Scripted**

The correct term for an unprepared speech is "impromptu." An impromptu speech occurs when a speaker is given little or no time to prepare before speaking. This type of speech relies on the speaker's ability to think quickly and articulate their thoughts spontaneously. It assesses the ability to respond effectively in the moment, making it a valuable skill in many situations, such as discussions or debates. Prepared speeches, on the other hand, involve prior organization of thoughts and ideas, which is not the case for impromptu speaking. Extemporaneous speeches typically involve some preparation, usually with a limited amount of time to organize thoughts beforehand, making them more structured than impromptu speeches. Scripted speeches, as the name suggests, involve delivering a pre-written text, which is the opposite of being unprepared. Thus, the essence of impromptu speaking lies in its spontaneity and the speaker's immediate engagement with the topic.

7. Which swine breed is white with erect ears and is the most common and prolific swine breed?

- A. Landrace**
- B. Yorkshire**
- C. Duroc**
- D. Berkshire**

The Yorkshire breed is characterized by its white color and erect ears, which are distinct features that help identify it among other swine breeds. It is known for its high level of productivity, making it one of the most prolific breeds in the swine industry. Yorkshires are favored for their ability to produce large litters and are often considered ideal for commercial crossbreeding due to their maternal qualities. Their adaptability and strong growth rate further contribute to their popularity among farmers. In contrast, other breeds mentioned have different characteristics. For instance, the Landrace breed also has a white coat but has drooping ears, distinguishing it from the Yorkshire. The Duroc breed is typically reddish-brown and known for its meat quality, while the Berkshire breed has a black color with white points on the legs and face, and it is specifically bred for pork quality rather than prolificacy. Thus, the Yorkshire's combination of appearance and reproductive capability makes it the most common and prolific swine breed overall.

8. What is the first degree an FFA member earns?

- A. Discovery**
- B. Explorer**
- C. Journey**
- D. Initiation**

The first degree that an FFA member earns is the Discovery degree. This degree is designed for middle school students who have just begun their journey in agriculture education and FFA participation. It recognizes their initial involvement and encourages their growth in the field. Achieving the Discovery degree involves completing specific requirements, such as participation in FFA activities and gaining some basic understanding of agricultural concepts. This degree serves as a foundation, emphasizing the importance of agriculture, leadership, and service within the organization. Other options may refer to different degrees within FFA that are attained at later stages or in different contexts, but the Discovery degree specifically targets new members at the entry level, making it an essential start to their FFA journey.

9. What type of cuts does a coping saw make?

- A. Straight cuts in metal
- B. Curved cuts in wood**
- C. Diagonal cuts in plastic
- D. Straight cuts in wood

A coping saw is designed specifically for making curved cuts in wood, which is why this answer is correct. It features a thin blade that is held in tension and is removable, allowing for intricate work and detailed curves that are not achievable with most other saws. The design of the coping saw enables it to easily navigate tight radiuses, making it ideal for tasks such as cutting out shapes or patterns from wood pieces. This is particularly useful in woodworking projects where fine detailing is required. The other cut types mentioned do not align with the intended use of a coping saw. Straight cuts in metal or wood would typically be accomplished using a different saw type, such as a hacksaw or a table saw, which are better suited for those specific tasks. Diagonal cuts in plastic would generally be more efficiently performed with a straight saw or a jigsaw specifically designed for that material. The unique attributes of the coping saw are what enable its effectiveness in crafting the curved shapes that woodworkers often require.

10. What is the purpose of herbicides in agriculture?

- A. To enhance soil fertility
- B. To kill weeds**
- C. To promote plant growth
- D. To accelerate photosynthesis

Herbicides are specifically designed to kill or inhibit the growth of unwanted plants, commonly known as weeds. Weeds can compete with crops for sunlight, water, and nutrients, potentially reducing yields and affecting overall crop health. By using herbicides, farmers can effectively manage weed populations and create an environment more conducive to the growth of desired crops. This targeted approach helps improve agricultural productivity and can lead to better economic outcomes for farmers. The other options do not accurately reflect the primary purpose of herbicides. While enhancing soil fertility or promoting plant growth are important aspects of agriculture, these functions are typically achieved through soil management practices, fertilizers, and other plant growth regulators, rather than herbicides. Similarly, accelerating photosynthesis is a process intrinsically linked to plant physiology and cannot be the role of herbicides, which focus solely on weed control.