



SECTION 2

TEST I SAMPLE QUESTIONS

This section of the Georgia Assessments for the Certification of Educators® (GACE™) Preparation Guide provides sample selected-response questions with an annotated answer key for you to review as part of your preparation for the test. The sample selected-response questions are designed to illustrate the nature of the test questions. Work through the questions carefully before referring to the annotated answer key, which follows the sample selected-response questions. The answer key provides the correct response to each question, describes why each correct response is the best answer, and lists the objective within the test framework to which each question is linked.

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QUESTIONS

1. Which of the following acts of Congress was passed in 1887 and was primarily responsible for the establishment of agricultural experiment stations?
 - A. Hatch Act
 - B. Perkins Act
 - C. Morrill Act
 - D. Smith-Lever Act

2. Which of the following statements best describes the total program approach in agricultural education?
 - A. Agricultural education combines classroom learning with hands-on experience gained from laboratory activities and field trips to actual agricultural businesses.
 - B. Agricultural education integrates classroom and laboratory instruction with experiential learning gained from participation in the FFA and supervised agricultural experiences.
 - C. Agricultural education incorporates a variety of techniques for assessing student learning, including formal testing, teacher observation, and student portfolios.
 - D. Agricultural education requires students to learn material from a wide range of subjects areas and academic programs, including business, science, and technology.

3. Which of the following statements most accurately describes how the Future Farmers of America (FFA) was founded?
 - A. In 1880, the federal government appropriated money to establish FFA chapters in high school vocational education programs.
 - B. In 1902, several colleges with student-run agricultural clubs established FFA affiliates with local high schools.
 - C. In 1928, students at a national conference modeled the FFA on similar organizations that already existed in several states.
 - D. In 1935, individual 4-H clubs located in seventeen states decided to incorporate and form a national FFA organization.

4. Rags that have been used to clean oil from agricultural equipment should be stored in a tightly sealed metal container and disposed of at the end of the day because oily rags:
 - A. are attractive to rodents and may lead to problems with infestation.
 - B. may spontaneously combust and start a fire.
 - C. may be an environmental hazard if they contact soil or water.
 - D. are caustic and contact with them may damage skin.

5. An entrepreneur wishes to start a small business growing and selling a variety of fresh vegetables directly to the public. When the entrepreneur is writing a startup business plan for the business, which of the following should be considered the most important component?
- A. a list of the products that will be offered and detailed descriptions of the methods and techniques used to grow and prepare each product
 - B. a summary of the problems that the business might encounter and several alternative courses of action if the business fails to succeed
 - C. a statement of the goals and objectives of the proposed business and a summary of the strategies and tactics for achieving those goals
 - D. a summary of the management skills needed to start the business and the steps that the entrepreneur will take to acquire those skills
6. Which of the following is the best example of using a product differentiation strategy to sell an agricultural product?
- A. placing the words "Homemade" and "No Artificial Ingredients" prominently on the label of jams
 - B. pricing peaches at cost in order to undercut competitors
 - C. offering free samples of fresh vegetables to restaurant chefs who are potential customers
 - D. raising the price of broilers when demand for chicken increases
7. Which of the following steps should be taken when a small engine will not be used for several months?
- A. Remove the spark plug to allow air to circulate through the cylinder.
 - B. Open the choke to allow gas fumes to dissipate.
 - C. Drain all engine oil from the crankcase.
 - D. Drain the gas tank or add stabilizer to the fuel.

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8. The use of a template to lay out a design on wood or metal would be most advisable when:
- A. a design contains a polygon with equal sides and angles, such as an octagon or hexagon.
 - B. it is necessary to make many identical curved or irregularly shaped pieces.
 - C. a long piece of wood or metal must be divided into several pieces of identical length.
 - D. it is necessary to draw an arc, circle, or oval in a design.
9. The most appropriate use of pressure-treated lumber on a horse farm would be for which of the following applications?
- A. sills between a concrete foundation and the walls of a barn
 - B. boards for a fence surrounding the pasture
 - C. frames of outside feed and water troughs
 - D. floorboards and partitions of interior stalls in a barn

ANNOTATED ANSWER KEY

For question	The correct response is	Reason	Test Objective
1	A	In 1887, the United States Congress passed the Hatch Act, which provided federal grants to states for basic and applied research in agriculture. Research was to be conducted at each state's land grant college in cooperation with the United States Department of Agriculture (USDA). This led directly to the establishment of agricultural experiment stations connected to state land-grant colleges.	0001
2	B	The total program approach in agriculture involves the integration of classroom and laboratory instruction, supervised agricultural experience (SAE), and participation in the FFA. In this approach, knowledge gained in the classroom and laboratory is applied in a student's SAE. The SAE provides hands-on experience in a field of agriculture. Participation in the FFA provides leadership opportunities for the student, teaches values such as cooperation and discipline, and provides additional experiential learning opportunities through FFA competitions and activities.	0002
3	C	In 1926, Henry Groseclose organized a Future Farmers Club of Virginia for students enrolled in agriculture classes. Several other states quickly followed suit. In 1928, a group of students used these state clubs as a model and founded the Future Farmers of America (FFA) in Kansas City as a national organization for agriculture students.	0003
4	B	Spontaneous combustion takes place when fire breaks out without the application of heat from an external source. It occurs when slow oxidation of combustible materials produces heat that cannot be easily dissipated, as in the center of a pile of oily rags. Eventually the temperature rises sufficiently to the point at which a fire starts. Oily rags that are left in a pile over a period of time create ideal conditions for spontaneous combustion.	0004
5	C	Setting out concrete goals in a business plan and outlining how they will be achieved provides a necessary framework for decision making about financing, location, selling strategy, and all other aspects of the business. In addition, one purpose of many business plans is to attract financial backers to the business. Before providing resources to the entrepreneur, investors are likely to require a detailed statement summarizing the goals of the business and the strategies for achieving these goals.	0005

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For question	The correct response is	Reason	Test Objective
6	A	A product differentiation sales strategy is one in which the seller attempts to make a product appear different from, and superior to, its competitors. In this strategy, the goal is to influence customer perceptions by making the product stand out in some way. Attaching a fancy label, packaging the product attractively, or adding descriptions, such as "homemade" or "all natural ingredients," serve to increase the perceived value of the product in the mind of the customer.	0006
7	D	Gasoline left in a small engine for several months (e.g., in a lawn mower over the winter) will go stale and leave deposits in the carburetor that will interfere with proper operation. For this reason, manufacturers recommend that the gas tank of power equipment be drained or run dry, or that stabilizer be added to the fuel before the equipment is put into storage.	0007
8	B	A template is a pattern made of wood, paper, or other material. Templates are usually placed on wood or metal sheet stock and traced in order to produce multiple pieces with the same shape. Templates are especially useful when the pieces to be produced cannot be easily drawn using standard drafting techniques, such as when a piece is curved or irregularly shaped.	0008
9	A	Pressure-treated lumber is used in applications where moist conditions may cause standard lumber to rot. Typical applications might include landscape timbers, posts, and sills between concrete foundations and walls. Pressure-treated lumber may be toxic to farm animals and should not be used in applications where animals can chew or lick the wood.	0009