

ANSI 1124 Introduction to the Animal Sciences Practice Exam (Sample)

Study Guide



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Questions

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- 1. In terms of animal diets, which other macronutrient supports growth and repair of tissues?**
 - A. Vitamins**
 - B. Fats**
 - C. Minerals**
 - D. Proteins**
- 2. True or False: All feeds contain some water in practical feeding situations.**
 - A. True**
 - B. False**
 - C. Sometimes**
 - D. Rarely**
- 3. The USDA's Food Safety and Inspection Service (FSIS) is responsible for what?**
 - A. Ensuring food safety for all products.**
 - B. Only regulating poultry and eggs.**
 - C. Overseeing the safety of meat and poultry products.**
 - D. Enforcing voluntary food safety standards.**
- 4. What is a common tool used for livestock management?**
 - A. Handheld feeders**
 - B. Electronic identification systems**
 - C. Traditional branding irons**
 - D. Manual tracking logs**
- 5. Are American consumers guaranteed that all types of meat products are mandatorily inspected?**
 - A. Yes, all meat and poultry products are assured safe.**
 - B. No, only beef and chicken are inspected.**
 - C. Yes, but only for domestic livestock.**
 - D. No, inspection is not mandatory for game birds.**

- 6. Is "dark cutting beef" commonly used in the foodservice industry?**
- A. Yes, it is widely accepted.**
 - B. No, it is never used.**
 - C. Only in some regions.**
 - D. It is used only if cooked before serving.**
- 7. Identify one method of animal identification used in livestock management.**
- A. Microchipping**
 - B. Ear tagging**
 - C. DNA profiling**
 - D. Visual markings**
- 8. What is the primary production method for catfish in aquaculture?**
- A. Ranching**
 - B. Intensive farming**
 - C. Extensive farming**
 - D. Mixed farming**
- 9. Which of the following statements about inspections of livestock is true?**
- A. All livestock must be inspected before slaughter.**
 - B. Inspections are optional for certain livestock.**
 - C. Only cattle are mandated to be inspected.**
 - D. Inspection fees are paid privately by consumers.**
- 10. What are "zoonotic diseases"?**
- A. Diseases that affect livestock only**
 - B. Diseases primarily affecting wild animals**
 - C. Diseases transmissible from animals to humans**
 - D. Diseases caused by parasites in animals**

Answers

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

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Explanations

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1. In terms of animal diets, which other macronutrient supports growth and repair of tissues?

- A. Vitamins**
- B. Fats**
- C. Minerals**
- D. Proteins**

The correct answer is proteins because they play a crucial role in the growth and repair of tissues in animals. Proteins are made up of amino acids, which are the building blocks necessary for the synthesis of new cells and tissues. This makes them essential for development during growth periods, as well as for recovery and healing after injuries or illnesses. In addition to their structural roles in tissues like muscles and skin, proteins are involved in various important biological functions, such as enzyme activity and immune function, which further highlight their significance in maintaining an organism's health and growth. Vitamins, while essential for various biochemical processes and overall health, do not directly contribute to tissue growth and repair. Fats are primarily a source of energy and serve important roles in cell structure and hormone production but are not directly responsible for tissue formation. Minerals are vital for numerous physiological functions and in supporting enzyme activities but also do not play a direct role in tissue growth and repair like proteins do.

2. True or False: All feeds contain some water in practical feeding situations.

- A. True**
- B. False**
- C. Sometimes**
- D. Rarely**

The statement that all feeds contain some water in practical feeding situations is indeed true. All animal feeds, whether they are dry, wet, or semi-moist, have some level of moisture content. Even dry feedstuffs, such as grains and pellets, contain small percentages of water, typically ranging from 8% to 14% moisture depending on the specific feed and storage conditions. This presence of moisture is important because it affects the nutritional quality and digestibility of the feed, as well as its storage and handling. In practice, the water content can also influence the palatability and subsequent consumption by animals. Understanding that all feeds contain moisture is essential for nutritionists and animal feed formulators to ensure that the diets provided to animals meet their hydration and nutritional needs.

3. The USDA's Food Safety and Inspection Service (FSIS) is responsible for what?

- A. Ensuring food safety for all products.**
- B. Only regulating poultry and eggs.**
- C. Overseeing the safety of meat and poultry products.**
- D. Enforcing voluntary food safety standards.**

The USDA's Food Safety and Inspection Service (FSIS) is specifically tasked with overseeing the safety of meat and poultry products, ensuring that these items meet safety regulations before they reach consumers. FSIS is responsible for inspecting all meat and poultry products to detect any contaminants, ensuring compliance with safety and labeling standards, and conducting food safety educational programs for producers and consumers alike. This agency plays a crucial role in preventing foodborne illnesses associated with meat and poultry, which is a significant component of the American food supply. While the FSIS has a focused role, other agencies, such as the Food and Drug Administration (FDA), are responsible for ensuring food safety across other products like dairy, seafood, and processed foods. This distinction emphasizes the specific impact of FSIS on meat and poultry, thus making it the correct choice.

4. What is a common tool used for livestock management?

- A. Handheld feeders**
- B. Electronic identification systems**
- C. Traditional branding irons**
- D. Manual tracking logs**

Electronic identification systems have become increasingly important in livestock management due to their efficiency and accuracy. These systems allow for the easy tracking of individual animals, streamlining the management of large herds. By using technologies such as RFID tags or electronic collars, farmers can quickly gather data on the health, location, and breeding status of their livestock. This is vital for decision-making around feeding, breeding, and healthcare, ultimately leading to improved productivity and animal welfare. Other methods for managing livestock, such as traditional branding irons, handheld feeders, and manual tracking logs, may offer some benefits but lack the same level of efficiency and data integration found in electronic identification systems. Traditional branding provides identification but can be painful and less versatile compared to electronic methods. Handheld feeders serve a different primary purpose focused on feeding rather than management, while manual tracking logs can be prone to human error and are labor-intensive. In contrast, electronic identification systems facilitate a more comprehensive, efficient approach to managing livestock operations today.

5. Are American consumers guaranteed that all types of meat products are mandatorily inspected?

A. Yes, all meat and poultry products are assured safe.

B. No, only beef and chicken are inspected.

C. Yes, but only for domestic livestock.

D. No, inspection is not mandatory for game birds.

The statement that all meat and poultry products are assured safe aligns with the mandatory inspection requirements set forth by the United States Department of Agriculture (USDA). Under the Federal Meat Inspection Act and the Poultry Products Inspection Act, all meat and poultry products sold in the U.S. must undergo rigorous inspection processes to ensure they are safe, wholesome, and correctly labeled. This applies to a wide array of meat products, including beef, pork, chicken, turkey, and other poultry, ensuring that consumers receive safe products. While certain exceptions exist (such as game birds that may not undergo the same levels of federal inspection), the overarching principle is that the majority of commonly consumed meats are subject to mandatory inspection. This comprehensive coverage helps maintain public health standards and consumer confidence in meat products found in the marketplace.

6. Is "dark cutting beef" commonly used in the foodservice industry?

A. Yes, it is widely accepted.

B. No, it is never used.

C. Only in some regions.

D. It is used only if cooked before serving.

Dark cutting beef refers to beef that has an unusually dark color caused by several factors, primarily related to the animal's stress levels before slaughter. In the foodservice industry, the acceptance of beef standards is crucial, with factors such as appearance and consumer expectations playing significant roles. The correct answer indicates that dark cutting beef is not typically used in foodservice. This is primarily due to its undesirable appearance and texture, which can negatively impact customer perceptions and satisfaction. Consumers generally expect a certain quality and color in their beef, and dark cutting beef does not meet those standards. Therefore, it is unlikely that foodservice establishments would incorporate it into their offerings, as doing so could lead to customer dissatisfaction and a potential loss of business. While there might be some niche markets or specific regional practices where dark cutting beef is utilized, the widespread nature of its rejection emphasizes the importance of quality control in meat products served to the public.

7. Identify one method of animal identification used in livestock management.

- A. Microchipping**
- B. Ear tagging**
- C. DNA profiling**
- D. Visual markings**

Ear tagging is a widely used method of animal identification in livestock management. This technique involves attaching a tag, usually made of plastic or metal, to the ear of an animal. The tags are often inscribed with unique identification numbers or codes that allow farmers and livestock managers to monitor and manage their animals efficiently. Ear tags provide several advantages in livestock management. They are visible from a distance, making it easy to identify individual animals in a herd. This is particularly useful for record-keeping, tracking health status, breeding management, and ensuring compliance with regulations concerning animal traceability. The durability of ear tags also allows them to withstand outdoor conditions, ensuring that they remain attached through the animal's daily activities. While other methods of identification, such as microchipping, DNA profiling, and visual markings, are also used, ear tagging is favored in many livestock operations due to its practicality, cost-effectiveness, and ease of use. Each alternative has its specific applications; for example, DNA profiling is more suited for situations requiring precise genetic identification, and visual markings are often temporary and may not be as reliable.

8. What is the primary production method for catfish in aquaculture?

- A. Ranching**
- B. Intensive farming**
- C. Extensive farming**
- D. Mixed farming**

Intensive farming is the primary production method for catfish in aquaculture due to several key factors that make it optimal for maximizing yield. This method involves raising fish in controlled environments that optimize feeding practices, water quality, and health management to ensure high growth rates and overall productivity. In intensive farming, catfish are raised in densely stocked ponds or tanks, where they receive high-quality feed that is specifically formulated to meet their nutritional requirements. The controlled conditions allow for careful monitoring of water parameters, such as temperature and dissolved oxygen levels, which are crucial for the well-being of the fish. Additionally, disease management practices are more easily implemented, further enhancing productivity. This method is particularly effective for species like catfish, which benefit from the increased availability of nutrients and reduced competition with other organisms. The ability to raise fish at high densities leads to higher output per square meter compared to other methods. Therefore, the intensive farming approach aligns well with the goals of aquaculture, which include increasing food production and efficiency in resource usage, making it the primary method for catfish production.

9. Which of the following statements about inspections of livestock is true?

- A. All livestock must be inspected before slaughter.**
- B. Inspections are optional for certain livestock.**
- C. Only cattle are mandated to be inspected.**
- D. Inspection fees are paid privately by consumers.**

The statement that all livestock must be inspected before slaughter is accurate and reflects the regulations in place to ensure food safety and animal welfare. In many countries, including the United States, federal regulations require that all livestock, such as cattle, sheep, pigs, and poultry, undergo inspection by a veterinarian or trained inspector before they can be processed for human consumption. This mandatory inspection process is designed to identify any signs of disease or distress and to ensure that the meat produced is safe and healthy for consumers. The necessity of inspections before slaughter helps safeguard public health, as it reduces the risk of contaminated meat entering the food supply. Additionally, these inspections also serve to ensure that animals are treated humanely throughout the process. Other options may misrepresent the situation regarding the mandatory nature of these inspections or suggest that their implementation varies based on certain conditions; however, the necessity for inspection remains consistent across the board for all livestock intended for human consumption.

10. What are "zoonotic diseases"?

- A. Diseases that affect livestock only**
- B. Diseases primarily affecting wild animals**
- C. Diseases transmissible from animals to humans**
- D. Diseases caused by parasites in animals**

Zoonotic diseases are defined as illnesses that can be transmitted from animals to humans. This transmission can occur through direct contact with animals, through bites, or indirectly via the environment, such as through contaminated food or water. The importance of understanding zoonotic diseases lies in their potential impact on public health, as many such diseases can lead to serious illnesses in humans. Understanding zoonotic diseases is crucial for veterinary medicine, public health, and ecology since they highlight the interconnectedness of human, animal, and environmental health. Research and control programs addressing zoonotic diseases are essential for preventing outbreaks and ensuring both animal and human health. The other options focus on more limited scopes. For instance, diseases that affect livestock only do not account for wildlife or species that can be reservoirs for diseases. Similarly, diseases that primarily affect wild animals do not encompass those that can jump to humans. Lastly, while parasites can certainly cause diseases in animals, not all zoonotic diseases are parasitic in nature, as many are viral, bacterial, or fungal.