

# Future Farmers of America (FFA) Vet Science Career Development Events (CDE) Practice Exam (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

**Remember:** successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

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- 1. What is a common emergency response to an exaggerated allergic reaction in animals?**
  - A. Antibiotics**
  - B. Antihistamines**
  - C. Epinephrine**
  - D. Corticosteroids**
  
- 2. What virus causes rabies?**
  - A. A rhabdovirus**
  - B. Parvo virus**
  - C. Bacteria**
  - D. Fungus**
  
- 3. What material are most surgical instruments made from?**
  - A. Aluminum.**
  - B. Copper.**
  - C. Lead.**
  - D. Stainless steel.**
  
- 4. What is a sexually mature male of the bovine species called?**
  - A. Heifer**
  - B. Steer**
  - C. Cow**
  - D. Bull**
  
- 5. What term describes diseases that can be transmitted to humans?**
  - A. Contagious**
  - B. Benign**
  - C. Malignant**
  - D. Zoonotic**

- 6. What is the total weight of the calf and placental materials during calving?**
- A. 286 pounds**
  - B. 189 pounds**
  - C. 97 pounds**
  - D. 362 pounds**
- 7. How much did the cow weigh after calving?**
- A. 1557 pounds**
  - B. 1457 pounds**
  - C. 1357 pounds**
  - D. 1257 pounds**
- 8. Which area is NOT evaluated in the integumentary system of Rowdy, a Palomino?**
- A. Skin and hide**
  - B. Mucous membranes**
  - C. Hooves**
  - D. Hair**
- 9. In vivo vaccination involves injecting the vaccine into which part?**
- A. newborn chick**
  - B. hen's uterus**
  - C. pullet**
  - D. embryo in the egg**
- 10. If your chicken has a heart rate of 275 beats per minute, is that cause for concern?**
- A. Yes, that is above normal.**
  - B. Yes, that is below normal.**
  - C. No, that is normal.**
  - D. No, that is below normal.**

## Answers

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

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## **Explanations**

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## 1. What is a common emergency response to an exaggerated allergic reaction in animals?

- A. Antibiotics
- B. Antihistamines
- C. Epinephrine**
- D. Corticosteroids

Epinephrine is commonly administered in cases of an exaggerated allergic reaction, also known as anaphylaxis, in animals. This hormone and neurotransmitter functions as a vasoconstrictor, increasing blood pressure and heart rate, while also helping to relax the airway muscles, making it easier for the animal to breathe. The rapid action of epinephrine is critical in life-threatening allergic reactions, as it can quickly reverse severe symptoms and stabilize the animal's condition. Other treatment options, while they may play a role in managing allergies, are not the first line of defense during an acute allergic reaction. Antibiotics do not address allergic reactions directly; they target bacterial infections, which are a separate concern. Antihistamines can be used to manage mild allergic reactions, but they do not provide the immediate response needed during anaphylaxis. Corticosteroids can help reduce inflammation and immune response but take longer to act and are not suitable for an urgent response. Thus, epinephrine is the appropriate choice for addressing severe allergic reactions effectively.

## 2. What virus causes rabies?

- A. A rhabdovirus**
- B. Parvo virus
- C. Bacteria
- D. Fungus

The virus that causes rabies is classified as a rhabdovirus, which belongs to the family Rhabdoviridae. Rhabdoviruses have a characteristic bullet shape and are enveloped, single-stranded RNA viruses. They primarily affect mammals and are known for their neurotropic properties, meaning they have a particular affinity for nerve cells. The rabies virus is transmitted through the saliva of infected animals, typically via bites, and it causes a progressive and fatal encephalitis if not treated promptly after exposure. Other options mentioned do not relate to rabies: parvovirus is known for causing gastrointestinal disease, particularly in dogs; bacteria and fungi represent entirely different categories of pathogens that do not include the rabies virus. Understanding the specific classifications and characteristics of viruses helps in recognizing their implications for animal and public health, which is critical in veterinary science.

### 3. What material are most surgical instruments made from?

A. Aluminum.

B. Copper.

C. Lead.

**D. Stainless steel.**

Surgical instruments are primarily made from stainless steel due to its advantageous properties. Stainless steel is highly resistant to corrosion, which is crucial in maintaining the integrity and hygiene of surgical tools that need to be sterilized regularly. The material is also strong and durable, providing the necessary resilience for various surgical procedures. Additionally, stainless steel offers an appropriate balance between hardness and toughness, making it suitable for precision cutting and manipulation in medical settings. Other materials listed, such as aluminum, copper, and lead, do not possess the same level of corrosion resistance or biocompatibility required for surgical instruments. Aluminum, while lightweight, is not as durable or resistant to sterilizing agents as stainless steel. Copper is known for its antimicrobial properties but can corrode and is not practical for surgical tools. Lead is toxic and therefore unsuitable for any medical devices or instruments. Therefore, stainless steel is the clear and preferred choice for manufacturing surgical instruments.

### 4. What is a sexually mature male of the bovine species called?

A. Heifer

B. Steer

C. Cow

**D. Bull**

A sexually mature male of the bovine species is called a bull. Bulls are essential in breeding programs because they can naturally sire offspring. They are characterized by their muscular build and distinctive features such as a thicker neck, larger body size, and prominent horns in some breeds. Heifers refer to young female bovines that have not yet calved, and cows are mature females that have successfully given birth. Steers, on the other hand, are male bovines that have been castrated, primarily raised for beef production. Understanding these terms is crucial for anyone involved in livestock management, breeding, or veterinary science within the bovine sector.

**5. What term describes diseases that can be transmitted to humans?**

- A. Contagious**
- B. Benign**
- C. Malignant**
- D. Zoonotic**

The term that describes diseases that can be transmitted from animals to humans is "zoonotic." Zoonotic diseases are a significant concern in veterinary and public health because they can arise from various animal species, including domestic pets, farm animals, and wildlife. Awareness of zoonotic diseases is essential for the prevention and control of outbreaks, and it emphasizes the interconnectedness of human and animal health. Contagious diseases, on the other hand, typically refer to illnesses that spread directly from one individual to another and may not necessarily be transmitted from animals to humans. Benign conditions are non-cancerous and do not imply any transmissibility, and malignant refers specifically to cancerous growths that can invade tissues or metastasize, again not related to transmission between animals and humans. Thus, "zoonotic" is the most accurate descriptor for the transmission of diseases from animals to humans.

**6. What is the total weight of the calf and placental materials during calving?**

- A. 286 pounds**
- B. 189 pounds**
- C. 97 pounds**
- D. 362 pounds**

The total weight of the calf and placental materials during calving is approximately 286 pounds, which includes both the weight of the calf and the associated placental tissues. Typically, the average weight of a newborn calf can range from about 60 to 100 pounds, depending on the breed and other factors. In addition to the calf, the placenta and any associated membranes can contribute a significant amount of weight. The total weight in this case represents a sum of these components, which leads to the total weight being around 286 pounds. This information is essential for understanding the physical demands and considerations during calving processes.

**7. How much did the cow weigh after calving?**

- A. 1557 pounds
- B. 1457 pounds**
- C. 1357 pounds
- D. 1257 pounds

The process of determining a cow's weight after calving involves understanding the relationship between the animal's weight before calving and the expected weight loss associated with the calving process itself. Typically, when a cow calves, it loses weight due to the delivery of the calf, loss of amniotic fluid, and the expulsion of the placenta. Therefore, knowing the average weight loss during this process typically ranges from 60 to 100 pounds can help in estimating the post-calving weight. In this scenario, if we consider that the cow's weight before calving was around 1557 pounds, after accounting for the weight loss during calving, the most accurate estimation suggests that the cow's post-calving weight would be approximately 1457 pounds. This figure aligns with the common expectations of weight reduction during calving. Thus, the selection of 1457 pounds as the post-calving weight reflects a reasonable assessment based on standard veterinary practices related to calving and weight loss.

**8. Which area is NOT evaluated in the integumentary system of Rowdy, a Palomino?**

- A. Skin and hide
- B. Mucous membranes**
- C. Hooves
- D. Hair

The integumentary system encompasses structures such as skin, hair, hooves, and mucous membranes. When evaluating Rowdy, a Palomino, the focus would be primarily on the external protective structures that relate directly to the integumentary system. Mucous membranes, while important for overall health and functioning of certain systems, are typically considered part of the digestive, respiratory, and reproductive systems instead of the integumentary system. Thus, they are not typically evaluated in the context of the integumentary system assessment. The other areas—skin and hide, hooves, and hair—are integral components of the integumentary system. They help protect internal structures, regulate temperature, and facilitate various sensory functions. This distinction clarifies why mucous membranes do not fit within the evaluation criteria when assessing the integumentary system.

**9. In vivo vaccination involves injecting the vaccine into which part?**

- A. newborn chick**
- B. hen's uterus**
- C. pullet**
- D. embryo in the egg**

In vivo vaccination refers to the process of administering a vaccine directly into a living organism, where the immune system can respond to it. The most effective method for certain types of vaccines, especially in avian species like chickens, is through the injection into the embryo within the egg. This approach allows for the development of immunity before the chick hatches, providing early protection against diseases. Administering the vaccine to the embryo in the egg ensures that the immune system is primed while the chick is still developing, leading to stronger immune responses and better overall health once the bird hatches. This method capitalizes on the natural development processes of the embryo, enhancing the efficacy of the vaccination. The other mentioned options are less ideal for in vivo vaccination in this context. For instance, while a newborn chick can receive vaccines, doing so post-hatch may not provide the same immediate immunity as vaccinating in ovo (inside the egg). Likewise, a hen's uterus and a pullet (a young hen) are not standard sites for vaccination in terms of ensuring the most effective immune response as seen in embryo vaccination.

**10. If your chicken has a heart rate of 275 beats per minute, is that cause for concern?**

- A. Yes, that is above normal.**
- B. Yes, that is below normal.**
- C. No, that is normal.**
- D. No, that is below normal.**

Chickens have a naturally high heart rate, which typically ranges between 200 to 400 beats per minute depending on their age, size, and activity levels. A heart rate of 275 beats per minute falls comfortably within this normal range. Elevated heart rates can occur during periods of stress, excitement, or physical activity, while lower heart rates can be seen during rest or sleep. Therefore, in this context, a heart rate of 275 beats per minute is completely normal for a chicken and does not indicate any health concerns. Understanding the normal physiological parameters for chickens is crucial for accurately assessing their health status.

## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://ffa-vetscience-cde.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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