

iCEV Elanco Fundamentals of Animal Science Certification Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

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1. What is conception?

- A. The formation of a viable zygote**
- B. The process of egg release from the ovary**
- C. The period of gestation before birth**
- D. The mating of a male and female in breeding**

2. What is the typical gestation period for a mare?

- A. 280 days**
- B. 336 days**
- C. 150 days**
- D. 270 days**

3. What does a notch on the right ear signify in the context of pigs?

- A. Pig's age**
- B. Pig's weight**
- C. Litter number**
- D. Gender of the pig**

4. Intramuscular injections in livestock are typically used to administer which of the following?

- A. Vitamins**
- B. Antibiotics**
- C. Hormones**
- D. Blood products**

5. What is the process called that involves the removal of an animal's testicles?

- A. Dehorning**
- B. Castration**
- C. Tail docking**
- D. Neutering**

6. Subcutaneous injections in livestock animals are generally used to administer what?

- A. Hormones**
- B. Vaccines, vitamins, and wormers**
- C. Pain relievers**
- D. Emergency drugs**

7. What is the term for the removal of calves from their mother's milk?

- A. Weaning**
- B. Fostering**
- C. Herding**
- D. Calving**

8. What is the term used for a female goat, regardless of whether she has given birth?

- A. Doe**
- B. Buck**
- C. Kid**
- D. Yearling**

9. Which term describes a female pig that has not yet had a litter of piglets?

- A. Gilt**
- B. Sow**
- C. Barrow**
- D. Pig**

10. What is a common characteristic of viruses?

- A. They can reproduce independently in the environment**
- B. They are classified as living organisms**
- C. They take over the functions of the host cell**
- D. They are typically single-celled organisms**

Answers

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

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Explanations

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1. What is conception?

- A. The formation of a viable zygote**
- B. The process of egg release from the ovary**
- C. The period of gestation before birth**
- D. The mating of a male and female in breeding**

Conception refers to the initial stage of fertilization, where a viable zygote is formed. This occurs when a sperm cell successfully penetrates an egg cell, resulting in the combination of genetic material from both parents. The formation of a zygote marks the beginning of a new organism's development and is a crucial event in reproductive biology. The other options, while related to reproduction, describe different processes. The release of an egg from the ovary is known as ovulation, not conception. The gestation period describes the duration of development of the embryo or fetus inside the female's body before birth. Lastly, the act of mating involves the physical pairing of male and female animals, but conception specifically refers to the successful fertilization of the egg and the creation of a zygote. Understanding this distinction is key to grasping reproductive concepts in animal science.

2. What is the typical gestation period for a mare?

- A. 280 days**
- B. 336 days**
- C. 150 days**
- D. 270 days**

The typical gestation period for a mare, which refers to the time a mare carries her foal before giving birth, is approximately 11 months or around 330-340 days. B, at 336 days, falls within this range and is considered an accurate representation of the average gestation length for equines. Understanding the gestation period is vital in animal science, particularly for breeding and veterinary practices, as it allows for better planning of reproductive schedules and care for the mare during this critical time. The other options do not align with the standard gestation length for mares; 280 days, 150 days, and 270 days are not within the expected range for equine gestation.

3. What does a notch on the right ear signify in the context of pigs?

- A. Pig's age**
- B. Pig's weight**
- C. Litter number**
- D. Gender of the pig**

A notch on the right ear of a pig is commonly used to denote the litter number, which is an important identification method in swine management. This practice helps farmers keep track of the lineage and breeding history of individual pigs within their operations. By notching the ear, producers can easily identify which litter a pig belongs to, facilitating better herd management, tracking of animal performance, and breeding records. In contrast, other potential indicators like age, weight, or gender are typically marked by different methods or systems in swine production. Age is often tracked through birth records rather than physical markings, weight is monitored through scales, and gender is usually identifiable by anatomy, making the notch system primarily useful for litter identification.

4. Intramuscular injections in livestock are typically used to administer which of the following?

- A. Vitamins**
- B. Antibiotics**
- C. Hormones**
- D. Blood products**

Intramuscular injections in livestock are typically used to administer antibiotics due to several reasons. Antibiotics are essential in treating infections or preventing disease, and delivering them via intramuscular injection allows for quicker absorption into the bloodstream. This method can help achieve effective therapeutic levels more rapidly than oral administration. While other substances, such as vitamins or hormones, can also be administered intramuscularly, antibiotics are specifically relevant for the treatment of bacterial infections in animals. Blood products may be administered through different routes depending on the desired effect and urgency, making antibiotics the more common choice for intramuscular injection in livestock management.

5. What is the process called that involves the removal of an animal's testicles?

- A. Dehorning**
- B. Castration**
- C. Tail docking**
- D. Neutering**

Castration is the process that involves the surgical removal of an animal's testicles. This procedure is commonly performed on male livestock and pets for various reasons, including to prevent unwanted breeding, reduce aggressive behavior, and decrease the risk of certain health issues. By removing the testicles, the production of testosterone is significantly reduced, which can lead to behavioral changes in the animal. In livestock management, castration is often used as a means of controlling breeding and ensuring that male animals are not part of the reproduction cycle, thereby managing population and health within herds. The term neutering is often used interchangeably with castration, especially in the context of pets, but neutering can refer to the alteration of both male and female animals, whereas castration specifically pertains to males. Dehorning and tail docking are different procedures; dehorning involves the removal of horns from animals, and tail docking entails the removal of part of an animal's tail. These are not related to the sexual organ removal involved in castration.

6. Subcutaneous injections in livestock animals are generally used to administer what?

- A. Hormones**
- B. Vaccines, vitamins, and wormers**
- C. Pain relievers**
- D. Emergency drugs**

Subcutaneous injections are commonly employed in livestock veterinary practices to deliver substances such as vaccines, vitamins, and wormers. This method involves injecting the fluid into the space beneath the skin, which allows for slower absorption compared to intramuscular or intravenous routes. Using this method for vaccines is particularly beneficial as it helps to trigger an immune response without the need for more invasive techniques. Additionally, vitamins and wormers—important for maintaining the health and welfare of the animals—are effectively administered in this way since the slower release can provide prolonged benefits. Other options like hormones and emergency drugs are typically delivered through different routes due to their specific action and the speed required for therapeutic effects. Pain relievers may also have preferred routes depending on urgency and the desired onset of pain relief. Thus, the combination of vaccines, vitamins, and wormers as the predominant substances administered via subcutaneous injection in livestock reflects the practical and physiological considerations inherent to animal health management.

7. What is the term for the removal of calves from their mother's milk?

- A. Weaning**
- B. Fostering**
- C. Herding**
- D. Calving**

The term that describes the removal of calves from their mother's milk is weaning. Weaning is a significant developmental milestone in the lifecycle of a calf, as it marks the transition from a milk-based diet to a diet that includes solid food. This process is essential for the health of both the calf and the mother; it helps reduce dependency on maternal milk and allows the calf to adapt to a more varied diet, which is vital for its growth and development. It's also beneficial for the mother, as it reduces the physical stress of lactation and allows her to regain energy for future cycles. In contrast, fostering refers to the practice of placing a calf with another lactating mother when the original mother is unable to care for it, while herding involves managing and moving groups of animals. Calving is the term that describes the actual act of giving birth to a calf. Each of these terms describes different aspects of animal husbandry, but weaning specifically targets the dietary transition away from milk.

8. What is the term used for a female goat, regardless of whether she has given birth?

- A. Doe**
- B. Buck**
- C. Kid**
- D. Yearling**

The term used for a female goat, regardless of whether she has given birth, is "doe." In goat terminology, a doe is recognized as the adult female, analogous to how a "cow" refers to a female cattle. This term encompasses all females in the goat species, irrespective of their reproductive status, meaning that it includes both those that have had kids and those that have not. The clarity of this classification is important for understanding livestock management and breeding practices. In contrast, "buck" refers to a male goat, "kid" denotes a young goat, typically one that is less than a year old, and "yearling" describes a goat that is between one and two years old. These definitions are essential in the context of animal science because they help in accurately identifying animals based on age and gender, which is crucial for breeding programs and understanding animal behavior and care requirements.

9. Which term describes a female pig that has not yet had a litter of piglets?

- A. Gilt**
- B. Sow**
- C. Barrow**
- D. Pig**

The term that refers to a female pig that has not yet had a litter of piglets is "gilt." This term specifically designates young female pigs that are typically under one year of age and are yet to farrow, meaning they have not produced offspring. It highlights a developmental stage in the life cycle of pigs, particularly in breeding contexts where distinguishing between reproductive statuses is essential for management and breeding decisions. On the other hand, a "sow" refers to a mature female pig that has had at least one litter. A "barrow" is a male pig that has been castrated, while "pig" is a general term that can refer to any member of the species, regardless of age or gender. Understanding these terms is crucial for anyone studying swine production and management.

10. What is a common characteristic of viruses?

- A. They can reproduce independently in the environment
- B. They are classified as living organisms
- C. They take over the functions of the host cell**
- D. They are typically single-celled organisms

A common characteristic of viruses is that they take over the functions of the host cell. Viruses are unique in that they cannot replicate on their own; they require a host cell to reproduce. Once a virus infects a host, it injects its genetic material into the cell, hijacking the cell's machinery to produce more viral particles. This dependence on a host cell for reproduction and function is a defining feature of viruses, distinguishing them from living organisms, which can carry out metabolic processes independently. Understanding this characteristic is essential when studying virology and the impact of viruses on living organisms, as it highlights how viruses can manipulate biological processes within their hosts, leading to disease and other significant effects on health and ecology.

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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.

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

<https://elancofundamentals of animal science.examzify.com>

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

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