

# Texas Future Farmers of America (FFA) Entomology 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 type of insect is the green lacewing?**
  - A. Beneficial**
  - B. Pest**
  - C. Predator**
  - D. Disease vector**
  
- 2. What is the classification of the tarnished plant bug's feeding type?**
  - A. Chewing**
  - B. Piercing sucking**
  - C. Scraping**
  - D. Puncturing**
  
- 3. Which insect is classified as a pest and known for spinning webs?**
  - A. Field Cricket**
  - B. Dobsonfly**
  - C. Fall Webworm**
  - D. Elm Leaf Beetle**
  
- 4. What group do chewing pests belong to in terms of their feeding mechanism?**
  - A. Orthoptera**
  - B. Lepidoptera**
  - C. Coleoptera**
  - D. Hemiptera**
  
- 5. Which metamorphic type does the Backswimmer exhibit?**
  - A. Holometabolous**
  - B. Ametabolous**
  - C. Hemimetabolous**
  - D. Hypometabolous**

**6. What type of metamorphosis does the jerusalem cricket undergo?**

- A. Holometabolous**
- B. Ametabolous**
- C. Hemimetabolous**
- D. None of the above**

**7. What type of insect is an Antlion classified as?**

- A. Pest**
- B. Beneficial**
- C. Predator**
- D. Parasite**

**8. What type of metamorphosis do Antlions undergo?**

- A. Hemimetabolous**
- B. Holometabolous**
- C. Ametabolous**
- D. Hypometabolous**

**9. What type of body development do whirligig beetles undergo?**

- A. Ametabolous**
- B. Holometabolous**
- C. Hemimetabolous**
- D. Metabolic**

**10. The classification "Hemimetabolous" most closely applies to which of these insects?**

- A. Biting Louse**
- B. Book louse**
- C. Blister beetle**
- D. Blow Fly**

## **Answers**

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

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## **Explanations**

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## 1. What type of insect is the green lacewing?

- A. Beneficial**
- B. Pest**
- C. Predator**
- D. Disease vector**

The green lacewing is classified as a beneficial insect. It plays a crucial role in agriculture and garden ecosystems by preying on pest insects. One of its high points is that the larvae of green lacewings are voracious predators of aphids, spider mites, and other soft-bodied insects that can damage crops. Providing natural pest control, they help reduce the need for chemical pesticides, promoting healthier farming practices and biodiversity. While it's important to note that the green lacewing can be beneficial to gardeners and farmers because of their pest control capabilities, they do not fall into the categories of pests, predators associated with negative impacts, or disease vectors. Understanding the role of beneficial insects like the green lacewing is essential for a balanced ecosystem where pest populations are kept in check naturally.

## 2. What is the classification of the tarnished plant bug's feeding type?

- A. Chewing**
- B. Piercing sucking**
- C. Scraping**
- D. Puncturing**

The tarnished plant bug is classified as a piercing-sucking feeder. This type of feeding behavior is characterized by the use of specialized mouthparts, known as piercing-sucking mouthparts or stylets, which allow the insect to penetrate plant tissues and extract the sap or fluids. This method of feeding is particularly noted for its ability to feed on a variety of plant materials, leading to significant agricultural damage. Piercing-sucking mouthparts allow the tarnished plant bug to access nutrients from within the plant while causing minimal physical destruction compared to other feeding types like chewing. The distinctive damage and symptoms caused by these pests often manifest as wilting, yellowing, or distorted growth, which are directly linked to their feeding mechanism. Understanding this classification helps in recognizing the potential impact of the tarnished plant bug on crops and informs management practices to mitigate their effects.

**3. Which insect is classified as a pest and known for spinning webs?**

- A. Field Cricket**
- B. Dobsonfly**
- C. Fall Webworm**
- D. Elm Leaf Beetle**

The Fall Webworm is classified as a pest primarily due to its behavior of creating conspicuous webs in which it resides while feeding on leaves, particularly from deciduous trees. These webs can cover entire branches and significantly impact the aesthetic of the trees, making them a concern for landscapers and forest management. The damage caused by the larvae can lead to tree stress and, over time, can weaken or even kill infested trees if the populations are large enough, which contributes to their pest status. The other insects listed do not share this particular characteristic. For instance, the Field Cricket is known for its chirping sounds and is not typically associated with web spinning, while the Dobsonfly is associated with aquatic environments and its larvae do not create webs. The Elm Leaf Beetle primarily causes damage by feeding on leaves but does not spin webs like the Fall Webworm does. Thus, the identification of the Fall Webworm as the correct answer is supported by its specific behavior of web spinning and the associated damage often resulting in it being classified as a pest.

**4. What group do chewing pests belong to in terms of their feeding mechanism?**

- A. Orthoptera**
- B. Lepidoptera**
- C. Coleoptera**
- D. Hemiptera**

Chewing pests are primarily classified in the Coleoptera group, which encompasses beetles. This classification is pertinent because Coleoptera is characterized by hardened forewings and mouthparts specifically adapted for chewing. These adaptations enable these insects to feed on a variety of plant materials, including leaves, stems, and roots. The other groups listed have different feeding mechanisms. For instance, Orthoptera, which includes grasshoppers and crickets, largely features chewing mouthparts as well, but they are not the predominant group specifically recognized as "chewing pests." Lepidoptera, encompassing butterflies and moths, mainly possess a siphoning type of mouthpart as adults, making them unsuitable in this context. Hemiptera, which includes aphids and true bugs, is known for its piercing-sucking mouthparts that allow these insects to extract sap from plants rather than chewing. Therefore, the selection of Coleoptera as the answer is accurate because it directly reflects the characteristics and feeding habits of chewing pests.

**5. Which metamorphic type does the Backswimmer exhibit?**

- A. Holometabolous**
- B. Ametabolous**
- C. Hemimetabolous**
- D. Hypometabolous**

The Backswimmer is an example of an insect that undergoes hemimetabolous metamorphosis. In hemimetabolous development, the insect goes through three main life stages: egg, nymph, and adult. The nymphs typically resemble smaller versions of the adult and often live in similar habitats. This type of metamorphosis is characterized by a gradual transition from the immature form to the adult form, without a distinct larval stage, which is a defining characteristic of holometabolous insects. In the case of Backswimmers, as they develop from nymphs to adults, they experience changes in size and the development of wings while retaining the same general body shape, similar to the adults. This gradual transformation is critical for their adaptation to aquatic environments, where they hunt for prey and need to navigate effectively. Understanding the classification of metamorphic types is essential in entomology, especially for identifying and studying various insect species and their life cycles.

**6. What type of metamorphosis does the jerusalem cricket undergo?**

- A. Holometabolous**
- B. Ametabolous**
- C. Hemimetabolous**
- D. None of the above**

The Jerusalem cricket undergoes hemimetabolous metamorphosis, which is characterized by three distinct life stages: egg, nymph, and adult. In hemimetabolous development, the nymphs resemble small adults and typically undergo several molts as they grow, gradually developing adult features such as wings and reproductive organs. This type of metamorphosis contrasts with holometabolous insects, which experience a complete transformation involving a larval stage that looks very different from both the nymph and adult stages and includes a pupal stage. Ametabolous insects, on the other hand, develop without a distinct change in form, merely growing larger as they molt into adulthood, which does not apply to the development of Jerusalem crickets. Therefore, the classification of Jerusalem crickets as undergoing hemimetabolous metamorphosis accurately describes their life cycle.

## 7. What type of insect is an Antlion classified as?

- A. Pest**
- B. Beneficial**
- C. Predator**
- D. Parasite**

An Antlion is classified as a beneficial insect, primarily due to its role in controlling pest populations. Antlions are known for their larval stage, during which they are predatory and can significantly reduce the numbers of soft-bodied insects like aphids and other pests in the soil or litter layer. The adult form of the Antlion resembles a dragonfly and is harmless to humans. In their larval stage, known for their unique pit-building behavior, they create traps to catch prey, which is primarily other small insects. This predatory behavior is beneficial to gardeners and farmers, as it helps to maintain a balance in the ecosystem by controlling pest populations that could harm crops or ornamental plants. While pests and parasites can cause harm to human activities or plants, the Antlion serves an essential function in natural pest management, emphasizing its classification as a beneficial insect.

## 8. What type of metamorphosis do Antlions undergo?

- A. Hemimetabolous**
- B. Holometabolous**
- C. Ametabolous**
- D. Hypometabolous**

Antlions undergo holometabolous metamorphosis, which is characterized by four distinct life stages: egg, larva, pupa, and adult. In this type of metamorphosis, the larval stage appears completely different from the adult form, which is a key feature distinguishing holometabolous insects. During the larval stage, antlions are known for their predatory behavior, often creating funnel-shaped pits in sand to trap prey. After this stage, they enter a pupal stage where they undergo significant physiological changes, eventually emerging as adult insects with wings and a different body structure suited for their life above ground. This holistic transformation allows for ecological adaptations that can be more specialized in both the larval and adult stages, increasing the chances of survival and reproduction in varying environments.

## 9. What type of body development do whirligig beetles undergo?

- A. Ametabolous**
- B. Holometabolous**
- C. Hemimetabolous**
- D. Metabolic**

Whirligig beetles undergo holometabolous development, which is characterized by a distinct four-stage life cycle: egg, larva, pupa, and adult. In this type of development, the larvae often look significantly different from the adults and typically occupy different ecological niches, which can be advantageous for resource allocation and survival. In the case of whirligig beetles, the larvae are aquatic and may have different behaviors and adaptations compared to their adult forms, which are adapted for a life spent on the water's surface. This transformation from larva to pupa, and eventually to adult, involves a complete metamorphosis that is a hallmark of holometabolous insects, allowing for specialization at different life stages.

**10. The classification "Hemimetabolous" most closely applies to which of these insects?**

- A. Biting Louse**
- B. Book louse**
- C. Blister beetle**
- D. Blow Fly**

Hemimetabolous insects undergo a form of development known as incomplete metamorphosis, which includes three life stages: egg, nymph, and adult. In these insects, the nymphs generally resemble smaller versions of the adults and gradually grow larger, without undergoing a distinct pupal stage. Biting lice, as members of the order Phthiraptera, exemplify hemimetabolous development. They hatch from eggs as nymphs that closely resemble the adults, undergoing multiple molts before reaching maturity. This gradual transformation is characteristic of hemimetabolous insects. On the other hand, book lice are also hemimetabolous, but they are not as representative of this classification as biting lice. Blister beetles and blow flies undergo complete metamorphosis, which involves four distinct stages: egg, larva (or caterpillar), pupa, and adult. This process is fundamentally different from hemimetabolism, as it includes a pupal stage where larvae undergo significant transformation into adults. Thus, the biting louse is the most fitting example of hemimetabolous development among the given options.

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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](mailto:hello@examzify.com).**

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

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

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

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