

MISSOURI FFA ENTOMOLOGY CDE PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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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. Which Lepidoptera species has complete metamorphosis and sucking mouthparts and is a butterfly named in its common name?**
 - A. Viceroy Butterfly
 - B. Tiger Beetle
 - C. Velvet Ant
 - D. Walking Stick
- 2. Which insect is a beetle with complete metamorphosis?**
 - A. Water Strider
 - B. Western Corn Rootworm
 - C. White-Lined Sphinx Moth
 - D. Yellowjacket
- 3. Which beneficial insect is often used for aphid control and has delicate lace-like wings?**
 - A. Lacewing
 - B. Lady beetle
 - C. Praying mantis
 - D. Ground beetle
- 4. Which insect has simple metamorphosis and belongs to Hemiptera?**
 - A. White-Lined Sphinx Moth
 - B. Western Corn Rootworm
 - C. Yellowjacket
 - D. Water Strider
- 5. Which insect is the Cicada?**
 - A. Cicada
 - B. Caddisfly
 - C. Camel Cricket
 - D. Colorado Potato Beetle

6. Which method is commonly used to survey ground-dwelling insects in fields?

- A. Pitfall traps
- B. Sweep nets
- C. Malaise traps
- D. Light traps

7. What is the larval stage of butterflies and moths called?

- A. Chrysalis
- B. Caterpillar (larva)
- C. Nymph
- D. Pupa

8. Which insect does not undergo complete metamorphosis?

- A. Western Corn Rootworm
- B. Water Strider
- C. White-Lined Sphinx Moth
- D. Yellowjacket

9. Which insect has order Hymenoptera and complete metamorphosis?

- A. Water Strider
- B. Western Corn Rootworm
- C. Yellowjacket
- D. White-Lined Sphinx Moth

10. Which insect has order Siphonaptera?

- A. Flea
- B. Forage Looper
- C. Flour Beetle
- D. Flea Beetle

Answers

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

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Explanations

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1. Which Lepidoptera species has complete metamorphosis and sucking mouthparts and is a butterfly named in its common name?

- A. Viceroy Butterfly**
- B. Tiger Beetle
- C. Velvet Ant
- D. Walking Stick

Lepidoptera, which includes butterflies and moths, all go through a four-stage life cycle (egg, larva, pupa, adult) and typically have mouthparts adapted for sucking nectar with a long proboscis. The Viceroy Butterfly fits best because it is a true butterfly, so its common name includes the word butterfly, and as an adult it has the characteristic siphoning mouthparts used to sip nectar. The other insects listed are not Lepidoptera and do not share these features: a tiger beetle is a beetle with chewing mouthparts; velvet ant is actually a wasp; walking stick is a stick insect.

2. Which insect is a beetle with complete metamorphosis?

- A. Water Strider
- B. Western Corn Rootworm**
- C. White-Lined Sphinx Moth
- D. Yellowjacket

Complete metamorphosis means the insect goes through four life stages—egg, larva, pupa, and adult—with the larval form usually looking very different from the adult. Beetles, in the order Coleoptera, all undergo this four-stage development. The Western Corn Rootworm is a beetle, so it follows that complete metamorphosis. The water strider isn't a beetle; it's a true bug (Hemiptera) and has incomplete metamorphosis (egg, nymph, adult). The white-lined sphinx moth is a Lepidoptera and also undergoes complete metamorphosis, and the yellowjacket is a Hymenoptera, which also has complete metamorphosis—neither is a beetle, though.

3. Which beneficial insect is often used for aphid control and has delicate lace-like wings?

- A. Lacewing**
- B. Lady beetle
- C. Praying mantis
- D. Ground beetle

Understanding aphid control involves recognizing predators that actively feed on soft-bodied pests and have identifying features that match how they look in the field. The insect best known for reducing aphid populations and for its delicate lace-like wings is the lacewing. Its larvae, often called aphid lions, eagerly prey on aphids and other small pests, delivering rapid damage to pest colonies. The adults also contribute by consuming tiny insects and sometimes nectar, which helps sustain them between meals. The wings are a key clue: they are long and translucent with an intricate network of veins that gives them a lace-like appearance. This combination of voracious aphid predation and the distinctive lace wings makes lacewings the right match for aphid control. While lady beetles are also beneficial aphid predators, their wings are covered by hard, solid wing cases rather than the lacy pattern. Praying mantises prey on larger insects and are not specifically used for aphid control, and ground beetles are typically ground-dwellers with different wing characteristics, not the delicate lace-like wings described.

4. Which insect has simple metamorphosis and belongs to Hemiptera?

- A. White-Lined Sphinx Moth
- B. Western Corn Rootworm
- C. Yellowjacket
- D. Water Strider**

Simple metamorphosis means an insect goes from egg to a nymph that looks like a smaller adult, with no pupal stage. Insects in the Hemiptera order, the true bugs, typically show this kind of development. The water strider fits because it is a Hemipteran and its life cycle is egg nymph adult, with nymphs resembling smaller adults and no pupal form required. In contrast, the white-lined sphinx moth, the western corn rootworm, and the yellowjacket all undergo complete metamorphosis, which includes a pupal stage (caterpillar chrysalis/pupa adult).

5. Which insect is the Cicada?

- A. Cicada**
- B. Caddisfly
- C. Camel Cricket
- D. Colorado Potato Beetle

Cicadas are large Hemipteran insects that produce loud songs by males using tymbal organs on the abdomen. They have piercing-sucking mouthparts for feeding on plant sap, clear wings held flat over the body, and a stout body with prominent eyes. Caddisflies, in contrast, belong to Trichoptera and have hairy wings plus aquatic larvae that often build cases. Camel crickets are Orthoptera with long hind legs built for jumping and typically lack the robust wings of cicadas. Colorado potato beetles are beetles (Coleoptera) with hard wing covers and a yellow-orange body with black stripes. The insect described here as the cicada matches the cicada's distinctive features, distinguishing it from the other insects listed.

6. Which method is commonly used to survey ground-dwelling insects in fields?

- A. Pitfall traps**
- B. Sweep nets
- C. Malaise traps
- D. Light traps

Pitfall traps are used to sample insects that spend time on the ground. A small container is buried so the opening sits at soil level, and insects walking across the surface fall in and are collected. This setup directly captures ground-dwelling insects like beetles and ants, making it ideal for surveying field-floor communities. It's simple, inexpensive, and can be left in place to sample over time, which helps estimate activity and abundance on the ground. Other methods target other habitats or behaviors: sweep nets sample insects in vegetation, Malaise traps capture flying insects by intercepting them, and light traps attract nocturnal flying insects.

7. What is the larval stage of butterflies and moths called?

- A. Chrysalis
- B. Caterpillar (larva)**
- C. Nymph
- D. Pupa

Butterflies and moths undergo complete metamorphosis, with stages that include egg, larva, pupa, and adult. The larval stage is the feeding growth phase that hatches from the egg and is best known as the caterpillar. Caterpillars molt as they increase in size and later enter the pupal stage to transform into adults. The pupal stage in butterflies is called a chrysalis (often hidden in a chrysalis), while moths develop inside a cocoon or similar structure. A nymph is a juvenile form seen in insects with incomplete metamorphosis, not in butterflies or moths. So the larval stage is the caterpillar.

8. Which insect does not undergo complete metamorphosis?

- A. Western Corn Rootworm
- B. Water Strider**
- C. White-Lined Sphinx Moth
- D. Yellowjacket

Insects are categorized by how they transform during development. In incomplete metamorphosis, the young (nymphs) resemble smaller versions of the adults and molt through several stages without a pupal stage. Water striders are true bugs (Hemiptera) and follow this pattern, so their nymphs look like tiny adults and no pupal stage occurs. The other insects listed undergo complete metamorphosis, meaning they have distinct life stages: egg, larva, pupa, and adult, with the larva and adult looking very different and a pupal stage between them. A beetle starts as a larva (grub), a moth as a caterpillar, and a wasp as a larva and then a pupa before becoming adults. So, the insect that does not undergo complete metamorphosis is the Water Strider.

9. Which insect has order Hymenoptera and complete metamorphosis?

- A. Water Strider
- B. Western Corn Rootworm
- C. Yellowjacket**
- D. White-Lined Sphinx Moth

This question tests recognizing both the insect's taxonomic group and its life cycle type. The correct answer is a wasp species—the yellowjacket. Hymenoptera includes wasps, bees, and ants, and they all undergo complete metamorphosis, meaning their life cycle passes through four distinct stages: egg, larva, pupa, and adult. The other choices come from different orders or have different development patterns: a water strider is Hemiptera and undergoes incomplete metamorphosis with nymphs that resemble adults; a western corn rootworm is a beetle (Coleoptera) with complete metamorphosis but not Hymenoptera; a white-lined sphinx moth is a moth (Lepidoptera) with complete metamorphosis but not Hymenoptera.

10. Which insect has order Siphonaptera?

A. Flea

B. Forage Looper

C. Flour Beetle

D. Flea Beetle

Siphonaptera are wingless, laterally flattened parasites adapted for living on mammals and birds, with specialized piercing-sucking mouthparts for blood feeding. The insect that belongs to this order is the flea, which fits these features. The other options come from different orders—Forage Looper (a caterpillar) is Lepidoptera, while Flour Beetle and Flea Beetle are beetles in Coleoptera. They don't belong to Siphonaptera, so they aren't the correct choice.

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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:

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

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