

CERTIFIED PROFESSIONAL HORTICULTURIST (CPH) PRACTICE EXAM (SAMPLE) STUDY GUIDE



Prepare with structure. Pass with confidence



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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	16

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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. When selecting perennials, which factor is important for determining its growth?**
 - A. Availability of seeds
 - B. Soil pH
 - C. Flower color
 - D. Growth rate
- 2. Which method can effectively improve soil structure and aeration over time?**
 - A. Overwatering
 - B. Regular fertilization
 - C. Adding compost or organic matter
 - D. Using chemical stabilizers
- 3. What is a common characteristic of perennials and biennials?**
 - A. They both need cold temperatures to flower
 - B. They both live for more than one growing season
 - C. They both produce seeds every year
 - D. They are both bulbs
- 4. An active compost with a pungent odor is an indication that the compost is not getting enough...**
 - A. Oxygen
 - B. Water
 - C. Carbon
 - D. Nitrogen
- 5. What is the likely impact of mowing too much leaf blade?**
 - A. An increase in stem formation
 - B. Increase in photosynthesis
 - C. Reduction of food manufacturing
 - D. Development of a stronger root system

- 6. Water alkalinity measures the ability of water to stabilize or buffer which of the following?**
- A. Nutrients
 - B. Acidity
 - C. Excess evaporation
 - D. Microbes
- 7. What is the major reason weeds are considered to be undesirable in the landscape?**
- A. They are not as pretty as other plants
 - B. They compete with other plants for water
 - C. They do not grow as well as other plants
 - D. They need specific growing requirements
- 8. Organic matter comes from decaying plants and animals as well as animal excretions, but also includes:**
- A. Living organisms
 - B. Essential nutrients
 - C. Some carbon-based materials
 - D. Soluble salts
- 9. Which practice is effective in improving soil quality and nutrient availability?**
- A. Regular rotation of crops
 - B. Adding organic matter and compost
 - C. Using synthetic fertilizers exclusively
 - D. Frequent tilling of the soil
- 10. What is the most likely result of root pruning plants that are grown in the ground?**
- A. Increased shoot growth
 - B. A compact root system
 - C. Production of large flowers
 - D. Stronger stems

Answers

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

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Explanations

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1. When selecting perennials, which factor is important for determining its growth?

- A. Availability of seeds
- B. Soil pH**
- C. Flower color
- D. Growth rate

Soil pH is a critical factor when selecting perennials because it significantly influences plant health and growth. Different plant species thrive in specific pH ranges, which can affect nutrient availability in the soil. For instance, some plants prefer acidic soils (pH less than 7), while others favor alkaline conditions (pH greater than 7). If the soil pH is not suitable for a particular perennial, it may struggle to absorb essential nutrients, leading to poor growth or even plant failure. Therefore, understanding and adjusting soil pH is crucial for ensuring that perennials can establish themselves and flourish in a given environment. While other factors like the availability of seeds, flower color, and growth rate are relevant to plant selection, they are not as fundamental to the plant's growth potential as soil pH. Availability of seeds pertains more to sourcing and buying the plants rather than their growth once established. Flower color is primarily a matter of aesthetic preference and does not impact the biological aspects of growth. Growth rate can be an important consideration, but it often depends on other factors such as environmental conditions and, crucially, the suitability of the soil pH for the species in question.

2. Which method can effectively improve soil structure and aeration over time?

- A. Overwatering
- B. Regular fertilization
- C. Adding compost or organic matter**
- D. Using chemical stabilizers

Adding compost or organic matter is an effective method for improving soil structure and aeration over time. When compost or organic matter is incorporated into the soil, it enhances the physical properties of the soil, improving its tilth, making it easier to work with. This practice introduces organic materials that increase soil porosity, allowing for better air movement and water infiltration. Furthermore, the decomposition process of organic matter adds beneficial microorganisms and nutrient content, promoting a healthy soil ecosystem which is vital for plant growth. In addition to enhancing aeration, compost helps in creating aggregates in the soil. These aggregates are clumps of soil that form when soil particles bind together, which improves drainage and reduces compaction. Over time, this contributes to a more well-structured soil that can hold moisture and nutrients more effectively, thereby supporting plant health and growth. The other methods listed do not lead to long-lasting improvements in soil structure and aeration. Overwatering can lead to compaction and poor aeration, while regular fertilization primarily provides nutrients but does not necessarily enhance soil structure. Using chemical stabilizers might offer some short-term benefits but often lacks the holistic, ongoing improvements to soil health that organic matter provides.

3. What is a common characteristic of perennials and biennials?

- A. They both need cold temperatures to flower
- B. They both live for more than one growing season**
- C. They both produce seeds every year
- D. They are both bulbs

Perennials and biennials share the characteristic of living for more than one growing season, which makes the answer highlighting this point accurate. Perennials are plants that can live for several years, continually generating new growth each growing season. Biennials, on the other hand, typically complete their lifecycle in two years; they grow leaves in the first year and then flower and produce seeds in the second year. Throughout their lifespans, both types of plants have the potential to survive and return year after year, distinguishing them from annuals, which complete their lifecycle in a single growing season. The other options do not correctly describe a characteristic that applies to both types. While some perennial species may require cold temperatures for flowering (a process known as vernalization), this is not universally applicable to all perennials or biennials. Similarly, not all perennials and biennials produce seeds every year; biennials only seed in their second year, and many perennials may not flower or set seeds every year. Lastly, the term "bulbs" specifically refers to certain types of underground storage organs, which does not apply to all perennials and biennials, as not all of them grow from bulbs.

4. An active compost with a pungent odor is an indication that the compost is not getting enough...

- A. Oxygen**
- B. Water
- C. Carbon
- D. Nitrogen

A pungent odor in active compost indicates that the compost may not be getting enough oxygen. Composting is a biological process that relies on microorganisms, such as bacteria and fungi, to decompose organic materials. These microorganisms require oxygen to efficiently break down the materials, particularly during the aerobic composting process. When oxygen levels are low, anaerobic bacteria begin to dominate the decomposition process. These anaerobic conditions produce foul-smelling compounds, leading to a strong, unpleasant odor. Proper aeration—by turning the pile or using perforated containers—helps maintain oxygen levels, promoting a healthier composting environment. While the other options also play important roles in composting, they do not specifically correlate with the production of a pungent odor as directly as the lack of oxygen does. Insufficient water affects moisture levels but typically does not cause strong odors; imbalances in carbon or nitrogen affect microbial activity and the rate of decomposition but are not directly tied to odor unless they significantly disrupt aerobic conditions. Thus, oxygen deficiency is the primary reason for the pungent smell in compost.

5. What is the likely impact of mowing too much leaf blade?

- A. An increase in stem formation
- B. Increase in photosynthesis
- C. Reduction of food manufacturing**
- D. Development of a stronger root system

Mowing too much leaf blade can significantly affect a plant's health and overall growth. When excessive leaf material is removed, it leads to a reduction in the plant's ability to manufacture food through photosynthesis. Leaf blades are vital for this process; they capture sunlight and convert it into energy that the plant uses for growth and development. If too much leaf blade is removed, the plant not only has less surface area for photosynthesis but can also suffer stress, leading to reduced energy reserves. As a consequence of this reduced food manufacturing, a plant may not effectively support its growth processes, including developing flowers, foliage, and roots. This balance is critical; plants rely on their leaf area to sustain themselves. When they are deprived of that area, their health can deteriorate. Therefore, maintaining an appropriate leaf height through mowing is essential for the long-term vitality of turfgrass or any other mowing-practiced plants.

6. Water alkalinity measures the ability of water to stabilize or buffer which of the following?

- A. Nutrients
- B. Acidity**
- C. Excess evaporation
- D. Microbes

Water alkalinity refers to the capacity of water to neutralize acids. It is primarily due to the presence of bicarbonates, carbonates, and sometimes hydroxides in the water. When water has high alkalinity, it can effectively buffer the pH, making it stable against changes caused by acid addition. This means that if an acid is introduced to the water, the alkalinity will work to counteract the pH drop, thereby stabilizing the acidity level in the water. In contrast, while alkalinity can influence nutrient availability and microbial activity indirectly, it does not measure their stabilization directly. Excess evaporation impacts concentration rather than alkalinity and thus is unrelated to the buffering capacity of water. Therefore, the focus of water alkalinity is specifically on its ability to buffer or stabilize the acidity.

7. What is the major reason weeds are considered to be undesirable in the landscape?

- A. They are not as pretty as other plants
- B. They compete with other plants for water**
- C. They do not grow as well as other plants
- D. They need specific growing requirements

Weeds are primarily considered undesirable in the landscape because they compete with cultivated plants for essential resources such as water, nutrients, and light. This competition can hinder the growth and health of desirable plants, leading to reduced yields in gardens and landscapes. Weeds often have aggressive growth patterns and can quickly overshadow or outcompete more desirable species, which can disrupt the intended design and ecology of the landscape. While aesthetics may play a role in how weeds are perceived, their impact on resource competition is a fundamental reason for their classification as undesirable. Weeds' ability to thrive in a variety of conditions can make them particularly problematic, as they tend to adapt quickly and invade spaces where they can overpower other plants. Therefore, the correct understanding of their disadvantage largely hinges on their competitive nature.

8. Organic matter comes from decaying plants and animals as well as animal excretions, but also includes:

- A. Living organisms**
- B. Essential nutrients
- C. Some carbon-based materials
- D. Soluble salts

Organic matter is composed primarily of decomposed materials from plants and animals, including their excretions. Additionally, it encompasses living organisms such as microbes, fungi, and other small creatures that are a part of the ecosystem. These living organisms contribute to the dynamic nature of organic matter through processes like decomposition and nutrient cycling. They play a vital role in breaking down complex organic materials into simpler forms that can be utilized by plants and other organisms. While essential nutrients are necessary for plant growth, they don't constitute organic matter itself; instead, they are often found within it. Similarly, carbon-based materials may include various substances, but not all carbon-based materials are classified as organic matter, especially synthetic or non-decomposable materials. Soluble salts are inorganic compounds and do not contribute to the definition of organic matter. Therefore, the inclusion of living organisms as a component of organic matter emphasizes the ecosystem's interconnectedness and the importance of biological activity in maintaining soil health and fertility.

9. Which practice is effective in improving soil quality and nutrient availability?

- A. Regular rotation of crops
- B. Adding organic matter and compost**
- C. Using synthetic fertilizers exclusively
- D. Frequent tilling of the soil

Adding organic matter and compost is an effective practice for improving soil quality and nutrient availability because it enhances the soil structure, increases its water retention capacity, and promotes the activity of beneficial soil microorganisms. Organic matter serves as a reservoir of nutrients that become available to plants as it decomposes. Compost, in particular, is rich in essential nutrients and provides a balanced supply of nitrogen, phosphorus, and potassium, which are vital for plant growth. Additionally, the incorporation of organic matter improves the soil's buffering capacity, making it more resilient to fluctuations in pH and nutrient levels. This leads to a healthier, more productive growing environment where plants can access the nutrients they need more effectively. Unlike using synthetic fertilizers, which may lead to nutrient runoff and soil depletion over time, incorporating organic material promotes long-term sustainability and enhances the overall vitality of the soil ecosystem. Crop rotation can also be beneficial for soil health but is not as immediately impactful on nutrient availability as adding organic matter. Synthetic fertilizers can temporarily boost nutrient levels but do not improve soil structure and health in the same way that compost does. Frequent tilling can disrupt soil structure and harm microorganisms, which is contrary to improving soil quality.

10. What is the most likely result of root pruning plants that are grown in the ground?

- A. Increased shoot growth
- B. A compact root system**
- C. Production of large flowers
- D. Stronger stems

Root pruning plants that are grown in the ground commonly leads to a compact root system. The act of pruning the roots stimulates a plant's response to form new, shorter roots which overall can enhance root density. This process can encourage the plant to develop a more fibrous root system with a higher proportion of fine roots, which can be more efficient for nutrient and water uptake. Increasing the density of the root system can contribute to greater stability and support for the plant during its growth. A compact root system is particularly beneficial in landscape settings, where it helps to conserve space and minimizes competition with surrounding plants. This is crucial for achieving optimal performance and aesthetics in garden and landscape design. In contrast, the other answers do not accurately reflect the primary outcomes of root pruning. While root pruning may lead to increased shoot growth in some cases, the more immediate and noticeable change is the formation of a compact root system. Additionally, while larger flowers and stronger stems could be secondary benefits of a healthier root system, they are not direct results of the root pruning itself.

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://certifiedprofessionalhorticulturist.examzify.com>

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

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