

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



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE**

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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 establishing a lawn, which fertilizer element is important in producing a stronger root and faster top growth of grass seedlings?**
 - A. Nitrogen
 - B. Potassium
 - C. Phosphorus
 - D. Calcium

- 2. What is the most important maintenance step for avoiding disease and pest infestations?**
 - A. Sanitation
 - B. Identification
 - C. Application of pesticides
 - D. Aeration of soil

- 3. What is a common sign of root rot in plants?**
 - A. Wilting despite proper watering
 - B. Bright yellow foliage
 - C. White growth on the soil surface
 - D. Brown or black roots

- 4. Which of the following practices helps to prevent soil erosion?**
 - A. Overgrazing
 - B. No-till farming
 - C. Artificial irrigation
 - D. Frequent tilling

- 5. What technique is commonly used to protect plants from frost in colder months?**
 - A. Watering in the morning
 - B. Covering with frost cloths
 - C. Applying mulch only
 - D. Pruning branches

- 6. What defining feature helps distinguish between ornamental trees and shrubs?**
- A. Height
 - B. Leaf shape
 - C. Root system
 - D. Flower color
- 7. In landscape design, which is a primary purpose of using contouring?**
- A. To enhance aesthetic appeal
 - B. To manage water runoff
 - C. To increase floral diversity
 - D. To reduce maintenance requirements
- 8. What lawn management strategy is likely to promote lawn disease?**
- A. Under fertilization, overwatering
 - B. Overfertilization, overwatering
 - C. Under fertilization, underwatering
 - D. Overfertilization, underwatering
- 9. What is the PSI change of traveling water based on elevation?**
- A. 5.1 feet
 - B. 2.31 feet
 - C. 6.2 feet
 - D. 4.31 feet
- 10. What term describes rapid freezing and formation of ice crystals within plant cells?**
- A. Extracellular ice formation
 - B. Supercooling
 - C. Desiccation injury
 - D. Intracellular ice formation

Answers

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

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Explanations

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1. When establishing a lawn, which fertilizer element is important in producing a stronger root and faster top growth of grass seedlings?

- A. Nitrogen
- B. Potassium
- C. Phosphorus**
- D. Calcium

Phosphorus is crucial for establishing a lawn because it plays a significant role in root development and enhances the overall vigor of grass seedlings. When grass is seeded, phosphorus helps to stimulate root growth, which is essential for the plant to absorb nutrients and water from the soil effectively. Additionally, a well-developed root system supports faster top growth by allowing the grass to establish itself more quickly, leading to a denser and healthier lawn. In the early stages after seeding, the focus is on promoting strong roots rather than just leafy growth, and phosphorus is specifically key to this process. It is involved in energy transfer and photosynthesis, and when readily available to seedlings, it encourages robust root development. While nitrogen is important for promoting lush, green foliage, it can lead to excessive top growth at the expense of roots if applied too early in the establishment phase. Potassium also contributes to plant health but is more focused on overall vigor and disease resistance rather than specifically on early root development. Calcium, while important for overall soil health and structure, does not play a direct role in root stimulation compared to phosphorus. This makes phosphorus the most vital nutrient for establishing lawns effectively.

2. What is the most important maintenance step for avoiding disease and pest infestations?

- A. Sanitation**
- B. Identification
- C. Application of pesticides
- D. Aeration of soil

Sanitation plays a crucial role in preventing disease and pest infestations in both gardens and landscapes. This process involves removing debris, dead plant material, and any infected or infested plants, which are often breeding grounds for pests and pathogens. By regularly cleaning up garden areas and removing potential sources of disease, growers can significantly reduce the chances of issues arising in the future. Additionally, proper sanitation includes practices such as sterilizing tools, maintaining clean pots and containers, and avoiding the introduction of infested materials. This proactive approach is generally more effective and sustainable compared to reactive measures like pesticide application, as it tackles the problem at its source. Maintaining a clean environment creates a less hospitable habitat for pests and diseases, thereby supporting healthier plant growth. While the identification of pests and diseases is essential for managing plant health, it does not prevent them from occurring in the first place. Similarly, although aeration of soil is important for root health and overall plant vigor, it doesn't directly address the risk factors associated with diseases and pests. Therefore, sanitation stands out as the most critical maintenance step for avoiding infestations and ensuring a thriving, healthy plant ecosystem.

3. What is a common sign of root rot in plants?

- A. Wilting despite proper watering
- B. Bright yellow foliage
- C. White growth on the soil surface
- D. Brown or black roots**

Root rot is a significant issue in plant care, often caused by overwatering or poor drainage, which leads to a detrimental environment for root health. The most definitive sign of root rot is the condition of the roots themselves. When roots are affected, they typically appear brown or black, indicating that they are decomposing rather than healthy and functioning properly. Healthy roots usually have a firm texture and may be white or pale in color. However, as rot sets in, these roots begin to decay, losing their structural integrity and turning brown or black. This visual discoloration demonstrates that the roots are no longer able to perform their essential functions, such as water and nutrient uptake, which can ultimately lead to the decline of the entire plant. While wilting despite proper watering, bright yellow foliage, and white growth on the soil surface can indicate other issues such as nutrient deficiencies, environmental stress, or fungal infections, they are not definitive signs of root rot. The distinct appearance of brown or black roots is the clearest and most direct indicator of this problem.

4. Which of the following practices helps to prevent soil erosion?

- A. Overgrazing
- B. No-till farming**
- C. Artificial irrigation
- D. Frequent tilling

No-till farming is an effective practice for preventing soil erosion because it maintains the structural integrity of the soil and helps to conserve moisture. This method minimizes soil disturbance by leaving the previous year's crop residues on the surface, which protects the soil from wind and water erosion. The plant material acts as a protective cover, reducing the speed of raindrops hitting the ground and allowing water to infiltrate more effectively instead of running off. Additionally, the root systems of the crops from previous seasons hold the soil in place, further preventing erosion. In contrast, practices such as overgrazing, artificial irrigation, and frequent tilling can contribute to soil erosion. Overgrazing can strip away vegetation, leaving the soil exposed and more susceptible to erosion. Artificial irrigation, while necessary in some cases, can lead to erosion problems if not managed properly, such as through runoff. Frequent tilling disrupts soil structure, can lead to compaction, and increases erosion by making the soil more vulnerable to water and wind movement. Therefore, no-till farming stands out as a key practice that specifically helps to mitigate soil erosion.

5. What technique is commonly used to protect plants from frost in colder months?

- A. Watering in the morning
- B. Covering with frost cloths**
- C. Applying mulch only
- D. Pruning branches

Covering with frost cloths is an effective technique to protect plants from frost during colder months. Frost cloths work by creating a barrier between the cold air and the plant, helping to trap heat radiating from the soil and preventing frost from settling on the plant leaves. These cloths are typically made from lightweight, breathable fabric that allows light and moisture to penetrate while providing insulation against freezing temperatures. This method can be particularly beneficial for tender plants that are more susceptible to frost damage. In contrast, watering in the morning may not offer sufficient protection against frost. While proper hydration helps plants overall, it does not physically shield them from cold temperatures. Applying mulch can help regulate soil temperature and retain moisture, but it primarily influences the soil environment rather than directly protecting the plant foliage from frost. Pruning branches, while useful for plant health in other contexts, does not provide any protective barrier against frost and could potentially expose the plant to more cold damage. Thus, using frost cloths is the most direct and effective method for safeguarding plants from frost.

6. What defining feature helps distinguish between ornamental trees and shrubs?

- A. Height**
- B. Leaf shape
- C. Root system
- D. Flower color

The defining feature that helps distinguish between ornamental trees and shrubs is primarily height. Trees are generally characterized by having a single trunk that elevates them to a greater height than shrubs, which tend to have multiple stems or branches that create a bushier appearance at a lower height. This height differentiation is key because it contributes to their roles in landscapes; trees often provide shade and vertical elements, while shrubs are typically used for ground cover, borders, or privacy screens. The other characteristics, such as leaf shape, root system, and flower color, can vary widely among both trees and shrubs and are not consistently reliable indicators for classification between the two groups.

7. In landscape design, which is a primary purpose of using contouring?

- A. To enhance aesthetic appeal
- B. To manage water runoff**
- C. To increase floral diversity
- D. To reduce maintenance requirements

Contouring in landscape design primarily serves the purpose of managing water runoff effectively. The process involves shaping the land into contours that follow the natural topography, which can significantly help in directing water flow, reducing soil erosion, and maximizing water absorption in the landscape. When land is contoured, it creates a series of ridges and valleys that slow down the movement of water, allowing it to seep into the soil rather than running off quickly. This is particularly important in preventing water loss, reducing the threat of flooding, and minimizing erosion on slopes. By carefully designing contours, landscape architects can enhance the overall sustainability of a site, contributing to better water management practices. While enhancing aesthetic appeal, increasing floral diversity, and reducing maintenance requirements are beneficial aspects of landscape design, they are secondary to the fundamental purpose of contouring, which is to address water runoff issues. Effective contouring not only provides functional benefits but can also lead to aesthetically pleasing designs and promote healthier plant growth by ensuring soil moisture retention.

8. What lawn management strategy is likely to promote lawn disease?

- A. Under fertilization, overwatering
- B. Overfertilization, overwatering**
- C. Under fertilization, underwatering
- D. Overfertilization, underwatering

Overfertilization combined with overwatering creates an environment conducive to lawn diseases. When there is an excess of nutrients, especially nitrogen, it stimulates lush, rapid growth in grass. While healthy growth is desirable, too much nitrogen can lead to a soft, succulent tissue that is more susceptible to diseases. The combination of overwatering exacerbates this problem by keeping the soil consistently moist and creating ideal conditions for pathogens to thrive. Saturated soil can hinder air exchange and promote fungal growth, leading to issues like root rot or various blights that are prevalent in overly moist environments. This means that lawns that receive too much fertilizer and water are often plagued by a greater incidence of lawn diseases, such as dollar spot, brown patch, and pythium blight, which thrive in such nutrient-rich and wet conditions. The other choices highlight scenarios of either underfertilization or underwatering, both of which tend to lead to weaker grass that is not as susceptible to diseases as over-enriched and overwatered grass.

9. What is the PSI change of traveling water based on elevation?

- A. 5.1 feet
- B. 2.31 feet**
- C. 6.2 feet
- D. 4.31 feet

The change in pressure exerted by water due to changes in elevation can be calculated using the principle that for every foot of water elevation, the pressure changes approximately 0.433 psi. Therefore, to determine how much the pressure will change for a certain number of feet in elevation, this conversion factor is applied. In this context, if we're considering a commonly used conversion, 1 psi can support about 2.31 feet of water. By calculating the elevation change related to psi change, this constant helps depict how elevation affects water pressure. In this case, a psi change of 1 psi corresponds to approximately 2.31 feet of elevation change. Therefore, when asked about pressure changes based on elevation, it's necessary to use this conversion to arrive at the accurate numerical relationship. This understanding makes the value of 2.31 feet significant, as it relates directly to changes in pressure based on elevation changes in a water column. By focusing on how pressure differentials relate to vertical height in water systems, one can effectively measure and predict water behavior under varying elevations.

10. What term describes rapid freezing and formation of ice crystals within plant cells?

- A. Extracellular ice formation
- B. Supercooling
- C. Desiccation injury
- D. Intracellular ice formation**

Intracellular ice formation refers to the process where ice crystals form within the cells of a plant. This phenomenon can severely damage the plant's cellular structure and function. When temperatures drop rapidly, water within the cells can freeze, forming ice crystals that can puncture cellular membranes and disrupt the integrity of organelles. This internal damage often leads to cell death and can significantly impact the plant's overall health and survival. Understanding this process is crucial, especially in horticulture, where managing plant stress and resilience to cold temperatures is essential. In contrast, other terms like extracellular ice formation pertain to ice forming outside the cells, and supercooling describes a state where water remains liquid below its normal freezing point without forming ice, both of which relate to different aspects of plant response to freezing. Desiccation injury involves damage due to dehydration rather than freezing, illustrating more about water loss than the effects of ice formation within cells.

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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