

HOSA Pharmacy Science Assessment Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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. How many milliliters are there in 1 quart?
 - A. 720 ml
 - B. 800 ml
 - C. 940 ml
 - D. 960 ml

2. What is the generic name for the drug Lunesta?
 - A. Eszopiclone
 - B. Temazepam
 - C. Pramipexole Dihydrochloride
 - D. Chlorpheniramine

3. Which of the following best describes an inactive ingredient?
 - A. Enhances therapeutic effects
 - B. Provides flavor or color
 - C. Reduces drug absorption
 - D. Has therapeutic properties

4. What condition does Detrol target in its treatment?
 - A. Anxiety disorders
 - B. Overactive bladder
 - C. Partial seizures
 - D. Gastrointestinal ulcers

5. What does "tall man lettering" help with?
 - A. Identifying drug manufacturers
 - B. Distinguishing drug names that may be confused
 - C. Indicating the strength of a medication
 - D. Providing dosage instructions

6. What is the primary treatment for hypothyroidism?
- A. Surgery
 - B. Thyroid replacement therapy
 - C. Medication to decrease thyroid hormone production
 - D. Hormone therapy
7. What is the indication for the drug Actos?
- A. Treatment for Alzheimer's disease
 - B. Adjunct in treatment of type II diabetes
 - C. Prevention of nausea and vomiting
 - D. Control of muscle spasms
8. What is a common diluent used for reconstituting medications?
- A. Sterile water
 - B. Alcohol
 - C. Glycerin
 - D. Propylene glycol
9. What does DAW 6 represent?
- A. Generic is not currently available; either not being manufactured or not being distributed
 - B. Substitution not allowed; brand mandated by law
 - C. Brand dispensed but priced as generic
 - D. Brand name must be dispensed regardless of price
10. What specific information is NOT required to be printed on a medication label?
- A. Medication expiration date
 - B. Pharmacy address
 - C. Patient's name
 - D. Directions for use

Answers

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

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Explanations

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1. How many milliliters are there in 1 quart?

- A. 720 ml
- B. 800 ml
- C. 940 ml
- D. 960 ml

A quart is a unit of volume commonly used in the United States customary and imperial measurement systems. When converting quarts to milliliters, it is essential to know that 1 quart is equivalent to approximately 946.35 milliliters. However, when rounded, it is generally accepted that 1 quart is equal to 960 milliliters for most practical purposes, especially in pharmacy settings where dosing might require whole numbers for simplicity. Thus, the answer of 960 milliliters effectively conveys the volume a quart represents, making it the most appropriate choice in this context. Understanding these relationships between units is crucial in fields such as pharmacy, where accurate dosing and conversions are vital.

2. What is the generic name for the drug Lunesta?

- A. Eszopiclone
- B. Temazepam
- C. Pramipexole Dihydrochloride
- D. Chlorpheniramine

The generic name for the drug Lunesta is Eszopiclone. This medication is primarily used as a prescription sleep aid for the treatment of insomnia. Understanding the pharmacological classification, Eszopiclone belongs to a class of drugs known as non-benzodiazepine sedative-hypnotics, which work by affecting chemicals in the brain that may be unbalanced in people with sleep problems. In contrast, the other options represent different classes or uses of medications. Temazepam is a benzodiazepine that is also used for sleep disorders but has a different chemical structure and mechanism of action compared to Eszopiclone. Pramipexole Dihydrochloride is used in the treatment of Parkinson's disease and restless legs syndrome and has no relation to sleep disorders. Chlorpheniramine is an antihistamine primarily used to relieve allergy symptoms, not for the treatment of insomnia. Knowing the specific generic name and its classification is essential for understanding the appropriate usage, potential side effects, and pharmacology related to sleep medications.

3. Which of the following best describes an inactive ingredient?

- A. Enhances therapeutic effects
- B. Provides flavor or color**
- C. Reduces drug absorption
- D. Has therapeutic properties

An inactive ingredient is often referred to as an excipient and serves several essential functions in pharmaceuticals. Option B correctly identifies that inactive ingredients can provide flavor or color to a medication. These ingredients are crucial for improving the palatability and aesthetic appeal of the drug form, especially for formulations intended for children or those who may have difficulty swallowing pills. Inactive ingredients do not contribute to the therapeutic effects of the medication, which is why the focus is on their supportive role in formulation rather than pharmacological activity. Therefore, their purpose is to enhance user experience rather than modify the therapeutic efficacy directly. In contrast, other options indicate roles that do not accurately describe inactive ingredients. For instance, enhancing therapeutic effects or having therapeutic properties would imply that these ingredients directly participate in the efficacy of the drug, which they do not. Additionally, reducing drug absorption is not a characteristic of inactive ingredients, as they are typically included to help with the drug's delivery and stability rather than impeding absorption. Thus, the emphasis on flavor or color underscores the role of inactive ingredients in making medications user-friendly without affecting their active therapeutic qualities.

4. What condition does Detrol target in its treatment?

- A. Anxiety disorders
- B. Overactive bladder**
- C. Partial seizures
- D. Gastrointestinal ulcers

Detrol, also known by its generic name tolterodine, is primarily used to treat an overactive bladder. This condition is characterized by symptoms such as urinary urgency, frequency, and in some cases, urge incontinence. The medication functions by blocking certain receptors in the bladder, thereby reducing involuntary contractions and helping to increase bladder capacity. The choice of Detrol specifically for overactive bladder is based on its mechanism of action, which contrasts with other conditions. For instance, anxiety disorders usually require different classes of medications, such as anxiolytics or antidepressants, while partial seizures are typically managed with antiepileptic drugs. Gastrointestinal ulcers would not be treated with Detrol as those are addressed with proton pump inhibitors or antacids. This specificity in treating overactive bladder highlights how targeted therapies can effectively manage particular health issues.

5. What does "tall man lettering" help with?

- A. Identifying drug manufacturers
- B. Distinguishing drug names that may be confused
- C. Indicating the strength of a medication
- D. Providing dosage instructions

Tall man lettering is a technique used in the healthcare field to help distinguish between drug names that are similar or might be easily confused. This method involves capitalizing specific letters within the drug names, which visually emphasizes the differences between them. For example, using tall man lettering for "promethAZINE" and "promethAMINE" highlights the critical distinctions that can prevent medication errors. While the other options pertain to various aspects of pharmaceutical practice, they do not specifically address the purpose of tall man lettering. Identifying drug manufacturers involves labeling and branding, not the modification of drug names for clarity. Indicating strength and providing dosage instructions relate to different labeling practices focusing on medication details, rather than differentiation of potentially confusing drug names. Therefore, tall man lettering's primary function is to enhance safety by reducing the likelihood of medication errors resulting from similarity in drug names.

6. What is the primary treatment for hypothyroidism?

- A. Surgery
- B. Thyroid replacement therapy
- C. Medication to decrease thyroid hormone production
- D. Hormone therapy

The primary treatment for hypothyroidism is thyroid replacement therapy, which involves administering synthetic thyroid hormones to restore adequate hormone levels in the body. This is essential because hypothyroidism occurs when the thyroid gland does not produce enough thyroid hormones, leading to a range of symptoms such as fatigue, weight gain, and depression. Thyroid replacement therapy, typically using levothyroxine, helps to normalize these hormone levels, improving metabolic function and alleviating symptoms. The goal of this therapy is to match the hormone levels produced by a healthy thyroid, ensuring that the body can function normally. Other options, such as surgery or medications to decrease thyroid hormone production, are not appropriate for treating hypothyroidism. Surgery might be considered for conditions like thyroid nodules or cancer, while medications that reduce thyroid hormone production would be used for hyperthyroidism, the opposite condition characterized by excessive thyroid hormone production. Hormone therapy here might refer to a range of treatments, but when it comes to specifically addressing hypothyroidism, thyroid replacement therapy is the most effective and direct method.

7. What is the indication for the drug Actos?

- A. Treatment for Alzheimer's disease
- B. Adjunct in treatment of type II diabetes
- C. Prevention of nausea and vomiting
- D. Control of muscle spasms

Actos, known generically as pioglitazone, is indicated for use as an adjunct in the treatment of type II diabetes. This medication works by improving insulin sensitivity in the muscle and fat tissues while also reducing hepatic glucose production. By effectively targeting insulin resistance, Actos helps to control blood sugar levels in patients with this condition. In the context of diabetes management, it is important to recognize that Actos is typically prescribed in combination with other healthcare strategies, which may include dietary modifications and additional oral hypoglycemics or insulin, depending on the individual patient's needs. It is effective in improving glycemic control, which is a crucial component of diabetes management. The other options involve conditions that Actos is not designed to treat. Medications for Alzheimer's disease, prevention of nausea, or control of muscle spasms serve entirely different therapeutic purposes and mechanisms of action and do not relate to the pharmacological properties of pioglitazone.

8. What is a common diluent used for reconstituting medications?

- A. Sterile water
- B. Alcohol
- C. Glycerin
- D. Propylene glycol

Sterile water is widely recognized as a common diluent used for reconstituting medications because it is free from contaminants and does not introduce any additional substances that could interfere with the medication's effectiveness or stability. When medications come in a powdered form, they often need to be dissolved in a liquid to be administered, and sterile water is ideal because it is designed for injection and does not contain any additives that could cause adverse reactions. Other options like alcohol are typically not used for reconstitution as they can cause irritation and may not be compatible with many medications. Glycerin is a thick, syrupy liquid often used as a vehicle for oral medications but is less suited for injection purposes. Propylene glycol, while it can serve as a solvent, is generally not preferred for reconstituting most injectable medications due to its relatively high viscosity and potential for toxicity at higher concentrations. Thus, sterile water stands out as the safest and most effective option for reconstituting a wide range of medications.

9. What does DAW 6 represent?

- A. Generic is not currently available; either not being manufactured or not being distributed
- B. Substitution not allowed; brand mandated by law
- C. Brand dispensed but priced as generic
- D. Brand name must be dispensed regardless of price

DAW 6, which stands for "Dispense as Written," indicates a situation where a generic medication is not currently available for a specific drug. This could either mean that the generic version is not being manufactured or that it is not being distributed in the marketplace. The designation is important in the pharmacy setting because it helps to clarify when a pharmacist should dispense a brand name medication instead of a generic one, ensuring that patients receive the appropriate medication as intended by the prescriber while navigating the limitations of availability. Other options relate to the guidelines regarding substitutions and pricing, but only DAW 6 specifically addresses the case of unavailability of a generic product, particularly in instances where the prescribing physician may be relying on the brand name for therapeutic reasons due to the absence of a generic alternative.

10. What specific information is NOT required to be printed on a medication label?

- A. Medication expiration date
- B. Pharmacy address
- C. Patient's name
- D. Directions for use

The medication expiration date is not universally required to be printed on every medication label, depending on the context or regulations governing the labeling of specific drug forms. While many organizations and regulations recommend displaying the expiration date for safety and efficacy reasons, it may not be mandated by law for all medications, particularly those dispensed in certain settings or for specific categories of drugs. On the other hand, the pharmacy address, patient's name, and directions for use are typically required on medication labels to ensure the safe and effective use of the medication. Including the pharmacy address provides a point of contact for any questions or concerns, the patient's name is crucial for personalizing the medication and ensuring it is given to the correct individual, and directions for use are essential to provide clear guidance on how the medication should be taken. These elements enhance patient safety and ensure compliance with legal and professional standards in pharmacy practice.

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://hosapharmacyscience.examzify.com>

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

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