

COA OPHTHALMIC TECH 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. Which elements are considered important during social history taking?**
 - A. Family history, genetic disorders, allergies
 - B. Smoking, alcohol, and drug use
 - C. Medical history, occupational hazards, diet
 - D. Vision problems, sleep patterns, exercise habits
- 2. Which relatives should be included in a patient's pertinent family history?**
 - A. Cousins and aunts
 - B. Parents, grandparents, and genetic siblings
 - C. Spouse and children
 - D. Family members over 50
- 3. What type of lens is designed to provide correction for distance, near, and intermediate vision all in one?**
 - A. Bifocal lens
 - B. Single vision lens
 - C. Double-D segment trifocal lens
 - D. Progressive lens
- 4. Which test is used to measure the amount of tear production?**
 - A. Fluorescein staining
 - B. Basic secretion test
 - C. Exophthalmometer
 - D. Schirmer test
- 5. Which condition is a common risk factor associated with contact lens wear?**
 - A. Macular degeneration
 - B. Corneal ulcers
 - C. Retinal detachment
 - D. Diabetic macular edema

- 6. Which of the following can lead to a significant haze after LASIK?**
- A. Using a high-energy laser
 - B. The patient is over 50 years old
 - C. The flap is too thin
 - D. Improper post-operative care
- 7. What is the primary function of topical corticosteroids?**
- A. Antimicrobial agents
 - B. Astringents
 - C. Anti-inflammatory and antiallergic agents
 - D. Ocular lubricants
- 8. When is the superior rectus muscle engaged?**
- A. When the eye turns downward
 - B. When the eye looks up
 - C. When the eye looks inward
 - D. When the eye looks laterally
- 9. What is a common effect of eye drop preservatives that patients might experience?**
- A. Improved vision
 - B. Eye irritation
 - C. Better comfort
 - D. No effects
- 10. What is the term for an abnormal physical change observed by a physician during an exam?**
- A. A symptom
 - B. A sign
 - C. A diagnosis
 - D. A risk factor

Answers

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

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Explanations

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1. Which elements are considered important during social history taking?

- A. Family history, genetic disorders, allergies
- B. Smoking, alcohol, and drug use**
- C. Medical history, occupational hazards, diet
- D. Vision problems, sleep patterns, exercise habits

In social history taking, understanding an individual's lifestyle and habits is crucial for assessing potential health risks and developing a comprehensive patient profile. Smoking, alcohol consumption, and drug use are key elements because they directly influence a person's overall health and can significantly impact the development or progression of various medical conditions, including those related to the eyes. For instance, smoking is linked to an increased risk of cataracts and age-related macular degeneration. Similarly, alcohol abuse can lead to nutritional deficiencies that may affect vision and ocular health. Drug use can also lead to a range of health issues, including those that affect vision and eye health. While other choices include important health aspects, the specific focus on lifestyle habits related to smoking, alcohol, and drug use provides critical insights into risks associated with a patient's social habits and overall wellness, making it particularly relevant for social history taking.

2. Which relatives should be included in a patient's pertinent family history?

- A. Cousins and aunts
- B. Parents, grandparents, and genetic siblings**
- C. Spouse and children
- D. Family members over 50

Including parents, grandparents, and genetic siblings in a patient's pertinent family history is essential because these relatives often share genetic material that can significantly affect the patient's health. This shared genetics can provide valuable insights into hereditary conditions, risk factors for various diseases, and possible outcomes of treatments. Parents and grandparents represent direct lineage, where many hereditary conditions may manifest. For instance, if there is a history of glaucoma, macular degeneration, or other hereditary eye diseases among these relatives, it could indicate a higher risk for the patient. Genetic siblings also share a significant proportion of their DNA with patients, which can contribute to understanding any familial patterns of diseases or conditions, particularly those that may be passed down through generations. In contrast, while including cousins and aunts may provide additional context for broader family health trends, they are generally considered less critical in understanding direct genetic inheritance compared to immediate family members. Similarly, while spouses and children are important in gathering a comprehensive family history, they do not share genetics in the same way that blood relatives do. Lastly, considering only family members over 50 might ignore younger relatives who could also provide valuable information about hereditary conditions. Therefore, the focus on direct lineage and genetic relationships makes the inclusion of parents, grandparents, and genetic siblings particularly

3. What type of lens is designed to provide correction for distance, near, and intermediate vision all in one?

- A. Bifocal lens
- B. Single vision lens
- C. Double-D segment trifocal lens**
- D. Progressive lens

The lens designed to provide correction for distance, near, and intermediate vision all in one is a progressive lens. Progressive lenses feature a gradient of increasing lens power, allowing for a smooth transition between different focal zones without the visible lines found in bifocal or trifocal lenses. In contrast, a bifocal lens contains two distinct areas for distance and near vision, which does not accommodate the intermediate range. A single vision lens is intended for only one distance (either near or far), thus resulting in limited functionality for varied vision needs. Although a double-D segment trifocal lens does offer three distinct areas for vision correction—near, intermediate, and distance—it is not seamless, as it features visible lines separating these areas. The progressive lens effectively combines all three focal points into a single lens without these lines, providing a more natural visual experience.

4. Which test is used to measure the amount of tear production?

- A. Fluorescein staining
- B. Basic secretion test
- C. Exophthalmometer
- D. Schirmer test**

The Schirmer test is used to measure the amount of tear production and is a significant diagnostic tool in assessing dry eye conditions. This test involves placing a small strip of filter paper under the lower eyelid and measuring the amount of moisture collected on the strip over a specified period, typically five minutes. A low reading indicates reduced tear production, which can contribute to dry eyes and other ocular surface diseases. The test is valuable for clinicians to evaluate the function of the lacrimal glands and can help in formulating appropriate treatment plans for patients experiencing dry eye symptoms. The results of the Schirmer test can guide further investigations or interventions to improve tear production or relieve discomfort. In contrast, other options like fluorescein staining assess the health of the corneal surface, the basic secretion test involves more comprehensive examination techniques for tear film but is not a direct measure of tear production, and the exophthalmometer is designed to measure the extent of eye protrusion and does not provide information about tear production. Thus, the Schirmer test stands out as the primary method for directly quantifying tear output.

5. Which condition is a common risk factor associated with contact lens wear?

- A. Macular degeneration
- B. Corneal ulcers**
- C. Retinal detachment
- D. Diabetic macular edema

Bacterial and fungal infections are significant risks associated with contact lens wear, making corneal ulcers a common complication. When contact lenses are worn improperly or for extended periods, they can create an environment that favors the growth of microorganisms on the corneal surface. These microorganisms can lead to corneal ulcers, which are open sores or lesions on the cornea that can result in pain, redness, and even vision loss if not treated promptly. Understanding the nature of contact lens use is key; lenses can sometimes hinder oxygen permeability to the cornea, causing hypoxia and making the cornea more susceptible to infections. Furthermore, inadequate hygiene practices, like not cleaning lenses properly or wearing them overnight, can exacerbate this risk, leading directly to corneal ulcers. In this context, while the other conditions listed, such as macular degeneration, retinal detachment, and diabetic macular edema, are serious eye conditions, they are not directly linked to contact lens wear in the same way that corneal ulcers are.

6. Which of the following can lead to a significant haze after LASIK?

- A. Using a high-energy laser
- B. The patient is over 50 years old
- C. The flap is too thin**
- D. Improper post-operative care

A significant haze after LASIK can occur when the flap created during the procedure is too thin. This is because a thin flap may not provide enough corneal bed to adequately promote healing and maintain structural integrity. The healing process can become irregular, leading to scarring and a haze that affects visual clarity. The corneal tissue needs sufficient thickness to recover properly, and when this is compromised, it can lead to complications, including haze. In contrast, using a high-energy laser typically does not directly relate to haze formation; rather, haze is more often associated with the healing processes following the surgery. While age can influence the overall healing and corneal health, simply being over 50 does not predispose a patient to significant haze specifically. Improper post-operative care, while important for overall healing, is more likely to lead to infections or other complications than directly causing haze itself. Thus, the thinness of the flap created during the procedure is the key factor contributing to the potential for significant haze in the post-operative phase.

7. What is the primary function of topical corticosteroids?

- A. Antimicrobial agents
- B. Astringents
- C. Anti-inflammatory and antiallergic agents**
- D. Ocular lubricants

Topical corticosteroids are primarily used for their anti-inflammatory and antiallergic properties. These medications work by suppressing the immune response and reducing inflammation in various tissues, including those in the eye. This is crucial in treating conditions such as allergic conjunctivitis, uveitis, and other inflammatory ocular conditions. By decreasing inflammation, topical corticosteroids help alleviate symptoms such as redness, swelling, and discomfort. They achieve this by inhibiting the release of inflammatory mediators like cytokines and prostaglandins, which play a key role in the inflammatory response. Additionally, they help in managing allergic reactions by reducing the response of the immune system to allergens. While other options may have their specific uses—such as antimicrobial agents targeting infections, astringents used for their constricting effect, and ocular lubricants providing moisture—these functions do not encompass the primary role of corticosteroids, which is centered on managing inflammation and allergic reactions in the ocular region.

8. When is the superior rectus muscle engaged?

- A. When the eye turns downward
- B. When the eye looks up**
- C. When the eye looks inward
- D. When the eye looks laterally

The superior rectus muscle is a crucial muscle that plays a significant role in controlling eye movements, specifically in elevation. When the eye looks up, the superior rectus contracts, pulling the eye upwards and slightly inward. This muscle is one of the extraocular muscles involved in ocular motion, and its primary function is to assist in elevating the eye, which is why the correct answer is associated with upward gaze. The other options focus on movements that do not engage the superior rectus muscle. Turning the eye downward would primarily involve the inferior rectus muscle, while inward eye movement engages the medial rectus muscle. Lateral movements, particularly looking to the side, are powered by the lateral rectus muscle.

9. What is a common effect of eye drop preservatives that patients might experience?

- A. Improved vision
- B. Eye irritation**
- C. Better comfort
- D. No effects

Eye drop preservatives are often used to prolong the shelf life of the medication and prevent microbial growth. However, a common effect that many patients experience is eye irritation. This irritation can manifest as redness, itching, burning, or a gritty sensation in the eyes. Preservatives are typically added to multi-dose eye drop bottles but can be harmful to the ocular surface and lead to adverse reactions, especially with long-term use. Patients with conditions requiring frequent instillation of eye drops may particularly notice these effects. In cases where a preservative is causing discomfort, healthcare providers may suggest preservative-free formulations, which have been shown to reduce irritation and improve patient compliance with their treatment regimens.

10. What is the term for an abnormal physical change observed by a physician during an exam?

- A. A symptom
- B. A sign**
- C. A diagnosis
- D. A risk factor

The term for an abnormal physical change observed by a physician during an exam is a sign. Signs are objective findings that a healthcare professional can detect during a physical examination. These can include things like swelling, redness, or unusual heart sounds, which can be observed, measured, or palpated by the physician. In contrast, symptoms are subjective experiences reported by the patient, such as pain or fatigue, which may not be directly observable. A diagnosis refers to the conclusion drawn by a physician about a patient's condition after evaluating the signs and symptoms. Risk factors are characteristics or conditions that increase the likelihood of developing a disease but do not represent an abnormal change themselves. Therefore, the correct answer highlights the distinction between what the physician can observe versus what the patient may report.

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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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