

IJCAHPO Certified Ophthalmic Assistant (COA) Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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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

- 1. What is the term for the tonometry technique that displaces a minimal amount of fluid?**
 - A. Aplanation**
 - B. Non-Contact**
 - C. Rebound**
 - D. Pneumatic**
- 2. What is the purpose of keratometry?**
 - A. To evaluate the retina**
 - B. To measure corneal curvature**
 - C. To assess eye pressure**
 - D. To diagnose cataracts**
- 3. What is the minus cylinder form of $-2.50 +1.00 \times 175$?**
 - A. $-1.50 -1.00 \times 85$**
 - B. $-1.50 +1.00 \times 95$**
 - C. $-2.00 +2.00 \times 180$**
 - D. $-3.50 +1.00 \times 175$**
- 4. Which of the following statements is true about office efficiency?**
 - A. Appointments are always on time.**
 - B. Emergencies can cause delays in appointments.**
 - C. Patients should never wait more than 10 minutes.**
 - D. Staff scheduling has no impact on office efficiency.**
- 5. Where is the second point of attachment for the zonular fibers?**
 - A. Ciliary Processes**
 - B. Lens**
 - C. Iris**
 - D. Cornea**

- 6. Which of the following statements is incorrect regarding the Maddox rod test?**
- A. The test can be used to measure vertical phorias only**
 - B. The test cannot be used to measure both vertical and horizontal phorias at a distance and near**
 - C. The test is effective for assessing eye alignment**
 - D. The test utilizes red and white light**
- 7. What is the power of a lens that has a focal length of 2 meters?**
- A. 0.25 D**
 - B. 0.50 D**
 - C. 1.00 D**
 - D. 2.00 D**
- 8. What term describes an eye that tends to turn upwards?**
- A. Hypophoria**
 - B. Hyperphoria**
 - C. Exophoria**
 - D. Esophoria**
- 9. What class of drugs is known to dilate the pupil?**
- A. Mydriatics**
 - B. Miotics**
 - C. Antihistamines**
 - D. Analgesics**
- 10. What condition describes if the amount of light information transmitted to the brain from one eye differs from that of the other eye?**
- A. Afferent Pupillary Defect**
 - B. Adie's Pupil**
 - C. Papilledema**
 - D. Pupillary Reflex**

Answers

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

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Explanations

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1. What is the term for the tonometry technique that displaces a minimal amount of fluid?

A. Aplanation

B. Non-Contact

C. Rebound

D. Pneumatic

The term that describes the tonometry technique which displaces a minimal amount of fluid is known as applanation tonometry. This method involves flattening a small area of the cornea to measure intraocular pressure (IOP). During the applanation process, the pressure required to flatten the cornea correlates with the internal eye pressure; thus, it is a direct measurement technique. In applanation tonometry, a known force (usually from a small tonometer or a probe) is applied to the surface of the cornea, and the amount of force necessary to achieve a specific degree of flattening is measured. Since this technique targets only a small area of the cornea, it minimally displaces fluid within the eye, consequently providing a reliable measurement of intraocular pressure while maintaining the natural state of the eye as much as possible. Other techniques, like non-contact tonometry, utilize a puff of air to measure pressure and may displace more fluid as the air interacts with the eye. Rebound tonometry also employs a small probe that bounces off the cornea, potentially altering fluid dynamics more than applanation. Pneumatic tonometry uses a pressurized system to measure IOP, which is less focused on minimizing fluid displacement compared to applanation.

2. What is the purpose of keratometry?

A. To evaluate the retina

B. To measure corneal curvature

C. To assess eye pressure

D. To diagnose cataracts

Keratometry serves a vital role in assessing the shape and curvature of the cornea. By measuring the anterior surface of the cornea, keratometry provides crucial information about corneal curvature, which is essential for several reasons. It is particularly important in fitting contact lenses, as the curvature affects how the lenses will sit on the eye. Additionally, understanding the corneal shape helps in diagnosing refractive errors like astigmatism and is also a significant consideration in pre-operative assessments for various eye surgeries, including cataract surgery and corneal transplants. While evaluating the retina, assessing eye pressure, and diagnosing cataracts are important components of comprehensive eye examinations, they do not relate directly to keratometry's specific function, which is exclusively focused on measuring the curvature and shape of the cornea. Thus, the core purpose of keratometry is accurately reflected in the measurement of corneal curvature.

3. What is the minus cylinder form of -2.50 +1.00 X 175?

- A. -1.50 -1.00 X 85**
- B. -1.50 +1.00 X 95**
- C. -2.00 +2.00 X 180**
- D. -3.50 +1.00 X 175**

To convert the prescription from plus cylinder to minus cylinder form, you need to apply specific rules related to the conversion process. The provided prescription, -2.50 +1.00 X 175, indicates that there is a spherical component of -2.50 diopters and a cylindrical component of +1.00 diopters at an axis of 175 degrees. In converting to minus cylinder, you need to adjust the spherical component while changing the sign of the cylindrical component. The general formula for this is as follows: 1. Subtract the cylindrical value from the spherical value to find the new spherical value. 2. Change the cylindrical value's sign (from + to -) and adjust the axis by 90 degrees. If the new axis exceeds 180 degrees, you need to subtract 180 degrees to keep it within the common range. Applying this to the given prescription: 1. From -2.50 (spherical) and +1.00 (cylindrical), you calculate: $-2.50 - 1.00 = -3.50$ (this becomes the new spherical power). 2. The cylindrical power changes from +1.00 to -1.00, and the axis changes: $175 +$

4. Which of the following statements is true about office efficiency?

- A. Appointments are always on time.**
- B. Emergencies can cause delays in appointments.**
- C. Patients should never wait more than 10 minutes.**
- D. Staff scheduling has no impact on office efficiency.**

The statement regarding emergencies causing delays in appointments accurately reflects a common occurrence in medical offices, including ophthalmology practices. Unforeseen circumstances such as urgent patient needs or complications that arise during examinations can disrupt the flow of scheduled appointments, leading to delays. Recognizing that emergencies can impact efficiency is essential for staff and management to anticipate and manage potential disruptions in patient care. This understanding can help in developing protocols or systems to address such situations, ensuring that both urgent and routine patient needs are met effectively, even when unexpected challenges arise. The other statements provide a more absolute view that does not consider the nuances of a busy medical practice. For instance, while punctuality and minimizing patient wait times are goals, factors like emergencies or the complexity of cases can impact the reality of scheduling. Additionally, staff scheduling undeniably plays a significant role in office workflow, affecting how efficiently an office operates.

5. Where is the second point of attachment for the zonular fibers?

A. Ciliary Processes

B. Lens

C. Iris

D. Cornea

The second point of attachment for the zonular fibers is at the ciliary processes. The zonular fibers, also known as zonules of Zinn, connect the lens to the ciliary body. They originate from the ciliary processes, which are small projections on the inner surface of the ciliary body. These fibers play a crucial role in the process of accommodation, allowing the lens to change shape for focusing on objects at varying distances. The ciliary processes produce a series of zonular fibers that attach to the equator of the lens, creating stability and enabling the lens to respond to the ciliary muscle's contractions. When the ciliary muscle contracts, the tension on the zonular fibers decreases, allowing the lens to become more rounded for near vision. Thus, understanding the anatomy and function of the ciliary processes is essential in ophthalmic practice, particularly when considering conditions that affect lens shape or function.

6. Which of the following statements is incorrect regarding the Maddox rod test?

A. The test can be used to measure vertical phorias only

B. The test cannot be used to measure both vertical and horizontal phorias at a distance and near

C. The test is effective for assessing eye alignment

D. The test utilizes red and white light

The Maddox rod test is a well-established clinical tool used to assess eye alignment and identify the presence of phorias, including both vertical and horizontal types. The test typically involves the use of a Maddox rod, which creates a line (or a series of lines) that the patient perceives, allowing the clinician to evaluate how the patient's eyes are working together. The correct answer highlights that the test can indeed measure both vertical and horizontal phorias at both distance and near. This is a fundamental aspect of the Maddox rod test, as it allows for the comprehensive assessment of eye alignment under different conditions. The other statements about the test also provide valid insights. For instance, the premise that the test is effective for assessing eye alignment reflects its purpose in clinical settings, while the mention of red and white light pertains to how the test is conducted, as the red light from the Maddox rod is contrasted against a white background or light source. In summary, while the statement that the Maddox rod test cannot be used to measure both vertical and horizontal phorias at varying distances is incorrect, the other statements accurately underscore the test's multifaceted capabilities in evaluating eye alignment and the methods used in its execution.

7. What is the power of a lens that has a focal length of 2 meters?

- A. 0.25 D
- B. 0.50 D**
- C. 1.00 D
- D. 2.00 D

The power of a lens is calculated using the formula: $\text{Power (D)} = \frac{1}{\text{Focal Length (meters)}}$. In this case, the focal length of the lens is 2 meters. Plugging this value into the formula gives: $\text{Power} = \frac{1}{2} = 0.50 \text{ D}$. This means that a lens with a focal length of 2 meters has a power of 0.50 diopters. The power indicates how strongly the lens converges or diverges light, with diopters being the unit of measurement. This result aligns with the answer provided, confirming that a focal length of 2 meters corresponds to 0.50 diopters of power. To clarify the reasoning behind the other options, a focal length of 1 meter would yield a power of 1.00 D, while a shorter focal length would increase the power. Conversely, a longer focal length would result in a lower power. Hence, they do not apply in this context.

8. What term describes an eye that tends to turn upwards?

- A. Hypophoria
- B. Hyperphoria**
- C. Exophoria
- D. Esophoria

The term that describes an eye that tends to turn upwards is "hyperphoria." Hyperphoria specifically refers to a condition in which one eye is misaligned vertically above the other, meaning that the affected eye is higher than its counterpart. This vertical misalignment can result in double vision or fusion problems, and it is typically assessed during an eye examination using specific tests. Understanding hyperphoria is crucial in clinical settings because it helps distinguish various types of strabismus and visual disturbances. In contrast, hypophoria would indicate a downward deviation of one eye, while exophoria and esophoria pertain to horizontal deviations—exophoria referring to an outward turn, and esophoria indicating an inward turn.

9. What class of drugs is known to dilate the pupil?

- A. Mydriatics**
- B. Miotics
- C. Antihistamines
- D. Analgesics

Mydriatics are a class of drugs specifically designed to dilate the pupil. They work by either stimulating the dilator muscle of the iris or inhibiting the sphincter muscle, leading to an increase in pupil size. This dilation is crucial in various diagnostic and therapeutic procedures, such as during retinal examinations or surgeries, as it allows more light to enter the eye and provides a clearer view of the internal structures. In contrast, miotics, another class of drugs, are used to constrict the pupil. They are often utilized to treat conditions like glaucoma. Antihistamines are primarily used to alleviate symptoms of allergic reactions and do not have a direct effect on pupil size. Analgesics are pain relievers that also do not influence the dilation or constriction of the pupil. Thus, mydriatics are the only class of the listed options effective for pupil dilation.

10. What condition describes if the amount of light information transmitted to the brain from one eye differs from that of the other eye?

A. Afferent Pupillary Defect

B. Adie's Pupil

C. Papilledema

D. Pupillary Reflex

The condition that describes a difference in the amount of light information transmitted to the brain from one eye compared to the other is known as an Afferent Pupillary Defect (APD). This condition typically occurs when there is some form of damage or dysfunction in the sensory pathway of one eye. In the case of an APD, when light is shone into the affected eye, the response of the pupil is less constricted than that of the unaffected eye. This phenomenon is a result of how the pupillary light reflex works: the brain receives less sensory input from the affected eye, leading to an asymmetric pupillary reaction when light is directed into both eyes at the same time. This differential response highlights the dysfunction in the afferent pathway—that is, the system responsible for transmitting visual information from the retina to the brain. The other options—Adie's Pupil, Papilledema, and Pupillary Reflex—do not specifically describe the situation of differing light transmission to the brain from each eye. Adie's Pupil pertains to a condition affecting the autonomic nervous system leading to a dilated pupil and poor reaction to light, Papilledema refers to swelling of the optic disk due to increased intracranial pressure, and Pup

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://ijcahpocoa.examzify.com>

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