

Optician License Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Questions

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- 1. What does the "B measurement" indicate in the context of lens measurement?**
 - A. The horizontal distance from the geometric center**
 - B. The vertical measurement up and down from the horizontal tangent**
 - C. The shape of the lens pattern**
 - D. The frame pupillary distance**
- 2. Which term describes the condition where light focuses at two distinct images instead of one?**
 - A. Aniseikonia**
 - B. Astigmatism**
 - C. Myopia**
 - D. Presbyopia**
- 3. In optics, which term describes the unit of measurement for prism power?**
 - A. Degrees**
 - B. Millimeters**
 - C. Prism diopter**
 - D. Diopters**
- 4. When is the "C measurement" equal to the "A measurement"?**
 - A. When the lens is at its widest point**
 - B. When the frame center is correctly positioned**
 - C. When it matches the effective diameter**
 - D. During the lens cutting process**
- 5. What vertical angle can be observed when looking at an individual's profile?**
 - A. 25-30"**
 - B. 10-15"**
 - C. 0-10"**
 - D. 15-20"**

- 6. What action would you take to achieve optimal lens polish before finishing the lens?**
- A. Dress the lens**
 - B. Refine the edge**
 - C. Grind the surface**
 - D. Sand the edges**
- 7. What is the purpose of grinding the outer carrier portion of a lenticular lens?**
- A. Enhance clarity**
 - B. Reduce weight and edge thickness**
 - C. Improve aesthetics**
 - D. Increase durability**
- 8. What is the name of the European system used for measuring lenses and frames from the center line?**
- A. Dantum system**
 - B. Metric system**
 - C. Standard system**
 - D. ISO system**
- 9. What term describes the inward turning of the eyes when focusing on a nearby object?**
- A. Adduction**
 - B. Divergence**
 - C. Convergence**
 - D. Extension**
- 10. What is a common characteristic of scratch resistant lenses?**
- A. They are completely scratch proof**
 - B. They are lightweight**
 - C. They typically have a hard coat applied**
 - D. They enhance optical clarity**

Answers

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

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Explanations

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1. What does the "B measurement" indicate in the context of lens measurement?

A. The horizontal distance from the geometric center

B. The vertical measurement up and down from the horizontal tangent

C. The shape of the lens pattern

D. The frame pupillary distance

The "B measurement" in lens measurement refers specifically to the vertical measurement from the lowest tangent of the frame to the highest tangent of the lens or the vertical height of the lens itself. This measurement is essential for ensuring that the optical center of the lens is positioned correctly in relation to the wearer's pupil, which can significantly impact the wearer's visual comfort and clarity. It helps in determining the fit and configuration of the lens as it relates to the frame, ensuring that the lenses are not only aesthetically pleasing but also function properly in relation to the user's eye position. Understanding the "B measurement" is crucial for accuracy in fitting, as it impacts how the lens aligns with the eyes, which is vital for achieving optimal vision correction.

2. Which term describes the condition where light focuses at two distinct images instead of one?

A. Aniseikonia

B. Astigmatism

C. Myopia

D. Presbyopia

The term that describes the condition where light focuses at two distinct images instead of one is astigmatism. This optical defect occurs when the cornea or lens is not perfectly spherical, leading to uneven curvature. As a result, light rays entering the eye are focused at multiple points, creating multiple images or a blurred vision effect. Individuals with astigmatism often experience distortions or blurriness at all distances, as the eye struggles to reconcile the different focal points. Recognizing and diagnosing astigmatism is important because it can significantly affect visual clarity and comfort, necessitating corrective lenses or other interventions to achieve clearer vision.

3. In optics, which term describes the unit of measurement for prism power?

- A. Degrees**
- B. Millimeters**
- C. Prism diopter**
- D. Diopters**

The term that describes the unit of measurement for prism power is prism diopter. Prism diopters measure the degree to which a prism deviates light, specifically indicating the amount of lateral displacement that occurs over a distance of one meter. One prism diopter corresponds to a 1 cm displacement of light over a distance of 1 meter from the point of incidence. This unit is crucial in optometry and optics for quantifying how the introduction of a prism affects vision by altering the line of sight. Understanding prism diopters is essential for opticians as they work with patients requiring prism correction for issues like strabismus or binocular vision disorders. Each prism is specified by its power in prism diopters, allowing for the precise prescription of lenses that manipulate light to aid in proper visual alignment. Other units mentioned, such as degrees, millimeters, and diopters, refer to measurements of angle, distance, and spherical lens power, respectively, but they do not specifically relate to the concept of prism power the way prism diopter does. Thus, prism diopter is uniquely suited to describe the effects of prisms in optics.

4. When is the "C measurement" equal to the "A measurement"?

- A. When the lens is at its widest point**
- B. When the frame center is correctly positioned**
- C. When it matches the effective diameter**
- D. During the lens cutting process**

The "C measurement," which refers to the distance from the center of the lens to the outer edge or the temporal side, and the "A measurement," which is the widest horizontal measurement of the lens, are equal when the lens is at its widest point. At this point, both measurements reflect the same horizontal distance across the lens, ensuring that the optical characteristics and fit of the frame align properly. Understanding this relationship is crucial for opticians as it impacts how lenses are fitted into frames, influencing both the aesthetics and functionality of eyewear. This equality is specifically relevant to lens design and fitting, enabling the optician to make precise adjustments based on the prescribed measurements for optimal vision correction and comfort. Other scenarios like correct frame positioning or matching effective diameters do not inherently guarantee that the "C measurement" will equal the "A measurement." Additionally, during the lens cutting process, the measurements may still need to be adjusted to fit the specific frame and prescription, and the equality of these measurements is not assured.

5. What vertical angle can be observed when looking at an individual's profile?

- A. 25-30"**
- B. 10-15"**
- C. 0-10"**
- D. 15-20"**

When evaluating an individual's profile, the vertical angle that is typically observable falls within the 10-15 degree range. This angle is crucial in assessing the fitting and alignment of eyewear, particularly in relation to the alignment of the visual axis and facial features. In optical practice, understanding the vertical angle helps in determining the appropriate frame adjustments needed for optimal vision and comfort. An angle within this range generally provides a good balance for most facial structures, ensuring that the lenses are positioned correctly relative to the eyes. Observations in this range align with common anatomical studies, which show that it is a standard range observed in many individuals. This understanding assists opticians in making informed decisions about frame style and lens positioning, contributing to overall eyewear efficacy. Other ranges listed, like 0-10 degrees or above 15, may not represent the typical profile alignment seen during examinations or fittings.

6. What action would you take to achieve optimal lens polish before finishing the lens?

- A. Dress the lens**
- B. Refine the edge**
- C. Grind the surface**
- D. Sand the edges**

To achieve optimal lens polish before finishing the lens, dressing the lens is the appropriate action. Dressing involves using an appropriate tool or material to smooth and prepare the lens surface by removing any irregularities or imperfections that might affect the final polish. This step is crucial because a well-dressed lens surface allows for more effective polishing, resulting in a clearer and more polished lens. The dressing process typically helps in refining both the shape and the surface quality, ensuring that any microscopic scratches or rough areas are addressed before the final polishing step. This contributes to better visual acuity and overall lens performance. The final polish will be more effective if the lens surface has been adequately dressed, thus ensuring the best possible optical quality. In contrast, refining the edge or grinding the surface involves altering the shape or thickness of the lens rather than focusing on achieving a fine finish. Sanding the edges also does not specifically target the overall lens surface quality and may introduce additional roughness, which would detract from the polishing process rather than enhance it.

7. What is the purpose of grinding the outer carrier portion of a lenticular lens?

- A. Enhance clarity**
- B. Reduce weight and edge thickness**
- C. Improve aesthetics**
- D. Increase durability**

The purpose of grinding the outer carrier portion of a lenticular lens primarily focuses on reducing weight and edge thickness. Lenticular lenses are designed to minimize the amount of material needed while still providing effective optical corrections for vision. By grinding the outer edges, the lens can be made thinner and lighter without compromising on the visual performance or the structural integrity of the lens. This reduction in thickness and weight is particularly beneficial for patients who may have bulky or heavier lenses in traditional designs, leading to increased comfort and wearability. Lighter lenses are easier to handle and reduce strain on the wearer, especially when glasses are worn for extended periods. Thus, the grinding process is a critical step in the manufacturing of lenticular lenses that enhances their usability and comfort for the wearer. In contrast, enhancing clarity, improving aesthetics, and increasing durability are secondary effects of the grinding process but do not represent its primary aim. While these factors may be influenced by the manufacturing process, the principal focus in this context remains on the weight and edge thickness.

8. What is the name of the European system used for measuring lenses and frames from the center line?

- A. Dantum system**
- B. Metric system**
- C. Standard system**
- D. ISO system**

The correct answer refers to the Dantum system, which is specifically designed for measuring lenses and frames with precision from the center line. This system provides opticians with the necessary tools to ensure accurate fitting of eyewear, focusing on critical aspects such as the alignment of the lenses relative to the center of the frame. Using the Dantum system allows for consistent measurements that can enhance patient comfort and visual acuity, which is essential in the practice of opticianry. The Dantum system is distinct in its methodology compared to other measurement systems, emphasizing a unique approach tailored to the needs of eyewear fitting. Other measurement options, such as the metric system, are broad measuring systems used for various applications but do not specifically pertain to optical measurements. The standard system typically refers to a more general framework that might not apply directly to the nuanced requirements of optics. The ISO system, while recognized internationally, is more associated with standardization across various industries rather than focusing specifically on optical measurements. Thus, the Dantum system is the correct reference for the specialized context of measuring lenses and frames in opticianry.

9. What term describes the inward turning of the eyes when focusing on a nearby object?

- A. Adduction**
- B. Divergence**
- C. Convergence**
- D. Extension**

The term that describes the inward turning of the eyes when focusing on a nearby object is convergence. This is a crucial ocular movement that allows both eyes to align on a close target, ensuring that the visual image is single and clear. When you look at something close, like reading a book, the eyes must turn inward towards each other to maintain binocular vision, which enhances depth perception and accuracy in focusing. In contrast, adduction refers to the movement of the eye toward the nose but does not specify that the focus is on a nearby object. Divergence is the outward movement of the eyes, which is the opposite process of convergence, and is employed when looking at distant objects. Extension does not pertain specifically to eye movement but rather to straightening or lengthening something, making it unrelated to this context. Hence, convergence is the most appropriate term for this specific eye movement associated with near vision.

10. What is a common characteristic of scratch resistant lenses?

- A. They are completely scratch proof**
- B. They are lightweight**
- C. They typically have a hard coat applied**
- D. They enhance optical clarity**

Scratch-resistant lenses are characterized by the application of a hard coat on their surface. This hard coating is specifically designed to improve the durability of the lenses and reduce the likelihood of scratches occurring during normal wear and handling. While these lenses can significantly decrease the risk of scratches compared to uncoated lenses, they are not entirely scratch-proof, meaning that deep scratches can still occur under certain conditions. The lightweight aspect of lenses usually relates to the material used (like polycarbonate or high-index plastics), rather than their scratch-resistant properties. Similarly, while scratch-resistant lenses can provide adequate optical clarity, their primary feature is the enhancement of scratch resistance through the application of a hard coating. Understanding these attributes helps in selecting lenses that meet specific needs regarding both scratch resistance and overall optical performance.