

Medical Technology NOCE

National Opticianry Competency Exam (NOCE)

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Question: 1

What strength is a lens measured in?

- A. Microns
- B. Add powers
- C. Diopters
- D. Prisms

Answer: C

Explanation:

The diopter is the basic unit of measurement for refractive power and is defined as the ability to bend a coherent beam of light by 1 centimeter at a distance of 1 meter from the lens.

Question: 2

What will light rays passing through a "plus" lens always do?

- A. Diverge
- B. Converge
- C. Cohere
- D. Disperse

Answer: B

Explanation:

The shape of a plus-power lens is such that the light rays passing through will converge to a point.

Question: 3

What is the principal action on light passing from one medium into another of different density called?

- A. Displacement
- B. Convergence
- C. Diffraction
- D. Refraction

Answer: D

Explanation:

As light passes from one medium (such as air) into a denser one (such as water), it is bent, or refracted.

Question: 4

What range of UV light is typically responsible for sunburns?

- A. 10 nanometers to 100 nanometers
- B. 320 nanometers to 400 nanometers
- C. 100 nanometers to 290 nanometers
- D. 290 nanometers to 320 nanometers

Answer: D

Explanation:

Although the UV range begins at around 400 nanometers, it is the shorter wavelengths (below 320 nm) that cause the most damage to the skin. Fortunately, wavelengths shorter than about 290 nm are mostly absorbed by the Earth's atmosphere.

Question: 5

What is the measure of how far it takes a lens to bring light to a point?

- A. Focal length
- B. Major axis
- C. Power
- D. Base curve

Answer: A

Explanation:

The focal length of the lens is the distance from its center to the point where the light rays converge to a point, or focus.

Question: 6

What is the spacing between the surface of the eye and the inside surface of a corrective lens known as?

- A. Sagittal depth
- B. Fitting cross
- C. Seg drop
- D. Vertex distance

Answer: D

Explanation:

The vertex distance is a measure of how far a corrective lens is placed from the eye and can influence the effective power of the patient's correction if it varies from the distance the doctor used during the eye exam.

Question: 7

What element of an eyeglass prescription is a measure of the patient's myopia or hyperopia?

- A. Cylinder
- B. Axis
- C. Sphere
- D. Add power

Answer: C

Explanation:

The sphere power of a prescription indicates whether a patient is myopic or hyperopic. Minus values denote myopia, whereas plus values indicate hyperopia.

Question: 8

What are the two modern forms in which a prescription may be written?

- A. Plus-cylinder and minus-cylinder
- B. Cross-cylinder and plus-cylinder
- C. Spherical and aspherical
- D. Base curve and cross curve

Answer: A

Explanation:

Most modern prescriptions are written in minus-cylinder format. Ophthalmologists, simply by tradition, continue to write prescriptions in plus-cylinder format.

Question: 9

A prescription of OD-0.25, OS Plano, add +1.75 is primarily indicating what type of refractive error?

- A. Hyperopia
- B. Presbyopia
- C. Stigmatism
- D. Nystagmus

Answer: C

Explanation:

This patient's vision is nearly 20/20 at infinity, but he or she needs correction to read clearly at 35 cm. This condition is known as presbyopia.

Question: 10

A prescription for a patient with astigmatism will contain which of the following elements?

- A. Cylinder and sphere
- B. Axis and add power
- C. Cylinder and axis
- D. Cylinder and prism

Answer: C

Explanation:

Astigmatism is an out-of-roundness in a patient's cornea and will be oriented in a particular direction. The correction for this in his or her prescription will be a cylindrical value, oriented along a specific axis.

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