Optics and Light Knowledge Quiz

Optics · Practice Test · 10 Questions

1. What is the term for the bending of light as it passes from one transparent medium into another?

A) Reflection
B) Refraction
C) Diffraction
D) Absorption

2. What are the three primary colors of light in the additive color model?

A) Red, Yellow, Blue
B) Red, Green, Blue
C) Cyan, Magenta, Yellow
D) Orange, Green, Purple

3. Which type of lens is thicker in the center than at the edges and brings light rays together to a point?

A) Convex lens
B) Concave lens
C) Flat lens
D) Cylindrical lens

4. What phenomenon causes white light to separate into a spectrum of colors when passing through a glass prism?

A) Polarization
B) Dispersion
C) Interference
D) Total internal reflection

5. What is the approximate speed of light in a vacuum?

A) 300,000 meters per second
B) 300,000 kilometers per second
C) 30,000 kilometers per second
D) 3,000,000 kilometers per second

6. Which part of the human eye controls the amount of light entering by adjusting the size of the pupil?

A) Retina
B) Cornea
C) Iris
D) Optic nerve

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7. What type of mirror curves inward like the inside of a bowl?

A) Convex mirror
B) Concave mirror
C) Plane mirror
D) Flat mirror

8. Which optical instrument uses mirrors to allow a user to see over or around obstacles?

A) Microscope
B) Telescope
C) Periscope
D) Stethoscope

9. Light waves are classified as which type of wave?

A) Mechanical waves
B) Sound waves
C) Electromagnetic waves
D) Ocean waves

10. What type of optical instrument uses lenses to magnify very small, nearby objects?

A) Microscope
B) Telescope
C) Periscope
D) Binoculars

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