

A. Fill in the blanks (use the following list) [/20]

angle of incidence	convex mirror	image	normal	refracted ray
angle of reflection	critical angle	incandescence	objective lens	refraction
angle of refraction	dispersion	incident ray	partial reflection & refraction	retina
apparent depth	diverging lens	index of refraction	phosphorescence	shimmering
astigmatism	eyepiece	lens	presbyopia	spherical aberration
bioluminescence	fluorescence	luminescence	principle axis	total internal reflection
chemiluminescence	focal length	magnification	ray	triboluminescence
chromatic aberration	focal point	medium	real image	vertex
concave mirror	plane mirror	mirage	reflected ray	virtual
converging lens	hyperopia	myopia	reflection	wavelength

1. **Bioluminescence** is light produced by living organisms.
2. According to the laws of **reflection**, the **angle of incidence** is equal to the **angle of reflection**.
3. A mirror whose reflecting surface curves inward is a **concave mirror**.
4. The **focal point** is the point on the **principle axis** through which reflected rays pass.
5. A mirror whose reflecting surface curves outward is a **convex mirror**.
6. The angle of incidence for which the **angle of refraction** is 90° is called the **critical angle**.
7. When you think that you are seeing an object but it is not really there, you are seeing a **virtual** image.
8. **Spherical aberration** occurs when rays at the edges of curved mirrors do not pass through the focal point.
9. A **mirage** is an optical effect caused by the bending of light rays passing through layers of varying temperatures.
10. The ratio of the speed of light in a vacuum to the speed of light in a **medium** is the **index of refraction**.
11. A **diverging lens** is thinner in the centre than it is around the edges.
12. The light-sensitive part of the eye is the **retina**.
13. When someone's eyes cannot focus on nearby objects, the person has **hyperopia**.
14. A **converging lens** brings parallel light rays toward a common point.
15. A **lens** is a transparent object with at least one curved side that causes light to refract.

B. True or False (If the statement is false, rewrite the statement to make it true) [/10]

16. The characteristics of an image produced by a concave mirror are always the same.
F - An image produced by a CONVEX mirror always produces the same characteristics.
17. Magnification of an image formed by a convex mirror will be ≥ 1.0 .
F - Magnification of an image formed by a convex mirror will be ≤ 1.0
18. A ray traveling towards any curved mirror, parallel to the PA will reflect back through F.
T
19. Concave and convex mirrors can both experience spherical aberration.
T
20. Concave mirrors are used for security mirrors and convex mirrors are used for radar antennas.
F - concave mirrors are used for radar antennas and convex mirrors are used for security mirrors.

C. Similarities/Differences (describe similarities/differences between each pair) [/8]

21. direct / indirect light
 - both can illuminate an object
 - direct light comes from luminous objects
 - indirect light comes from non-luminous objects
22. reflection / refraction
 - both are produced by rays of light
 - angle of incidence = angle of reflection
 - refraction of light is the bending of light
23. mirror / lens
 - both are optical instruments
 - light reflects off a mirror
24. principle axis / normal
 - both are 90° to their respective surfaces
 - principle axis is normal to the axis of symmetry

Optics Concept Review Answers

JL Elias



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Table of Contents Optics Concept Review Answers

1. Understanding the eBook Optics Concept Review Answers
 - The Rise of Digital Reading Optics Concept Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Optics Concept Review Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optics Concept Review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optics Concept Review Answers
 - Personalized Recommendations
 - Optics Concept Review Answers User Reviews and Ratings
 - Optics Concept Review Answers and Bestseller Lists
5. Accessing Optics Concept Review Answers Free and Paid eBooks
 - Optics Concept Review Answers Public Domain eBooks
 - Optics Concept Review Answers eBook Subscription Services
 - Optics Concept Review Answers Budget-Friendly Options
6. Navigating Optics Concept Review Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Optics Concept Review Answers Compatibility with Devices
 - Optics Concept Review Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optics Concept Review Answers
 - Highlighting and Note-Taking Optics Concept Review Answers
 - Interactive Elements Optics Concept Review Answers
8. Staying Engaged with Optics Concept Review Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optics Concept Review Answers
9. Balancing eBooks and Physical Books Optics Concept Review Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optics Concept Review Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Optics Concept Review Answers
 - Setting Reading Goals Optics Concept Review Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Optics Concept Review Answers
 - Fact-Checking eBook Content of Optics Concept Review Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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