

Physics

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(Chapter 10) (Wave Optics)
(Class 12)

Question 10.1:

Monochromatic light of wavelength 589 nm is incident from air on a water surface. What are the wavelength, frequency and speed of (a) reflected, and (b) refracted light? Refractive index of water is 1.33.

Answer 10.1:

Wavelength of incident monochromatic light, $\lambda = 589 \text{ nm} = 589 \times 10^{-9} \text{ m}$

Speed of light in air, $c = 3 \times 10^8 \text{ m/s}$

Refractive index of water, $\mu = 1.33$

(a) The ray will reflect back in the same medium as that of incident ray. Hence, the wavelength, speed, and frequency of the reflected ray will be the same as that of the incident ray.

$$\text{Frequency of light is given by, } \nu = \frac{c}{\lambda} = \frac{3 \times 10^8}{589 \times 10^{-9}} = 5.09 \times 10^{14} \text{ Hz}$$

Hence, the speed, frequency, and wavelength of the reflected light are $3 \times 10^8 \text{ m/s}$, $5.09 \times 10^{14} \text{ Hz}$, and 589 nm respectively.

(b) Frequency of light does not depend on the property of the medium in which it is travelling. Hence, the frequency of the refracted ray in water will be equal to the frequency of the incident or reflected light in air.

$\therefore$ Refracted frequency, $\nu = 5.09 \times 10^{14} \text{ Hz}$

Speed of light in water is related to the refractive index of water as:

$$\nu = \frac{c}{\mu} = \frac{3 \times 10^8}{1.33} = 2.26 \times 10^8 \text{ m/s}$$

Wavelength of light in water is given by, $\lambda = \frac{\nu}{\nu} = \frac{2.26 \times 10^8}{5.09 \times 10^{14}} = 444.007 \times 10^{-9} \text{ m} = 444.01 \text{ nm}$

Hence, the speed, frequency, and wavelength of refracted light are $2.26 \times 10^8 \text{ m/s}$, 444.01 nm , and $5.09 \times 10^{14} \text{ Hz}$ respectively.

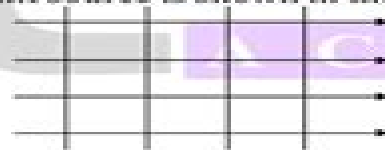
Question 10.2:

What is the shape of the wavefront in each of the following cases:

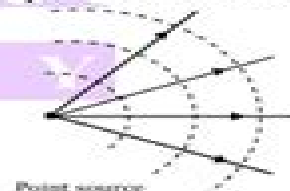
- (a) Light diverging from a point source.
- (b) Light emerging out of a convex lens when a point source is placed at its focus.
- (c) The portion of the wavefront of light from a distant star intercepted by the Earth.

Answer 10.2:

(a) The shape of the wavefront in case of a light diverging from a point source is spherical. The wavefront emanating from a point source is shown in the given figure.



Wavefront



Point source

- (b) The shape of the wavefront in case of a light emerging out of a convex lens when a point source is placed at its focus is a parallel grid. This is shown in the given figure.
- (c) The portion of the wavefront of light from a distant star intercepted by the Earth is a plane.

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1. Understanding the eBook Physics Chapter 10 Test
 - The Rise of Digital Reading Physics Chapter 10 Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Chapter 10 Test
 - 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 Physics Chapter 10 Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Chapter 10 Test
 - Personalized Recommendations
 - Physics Chapter 10 Test User Reviews and Ratings

- Physics Chapter 10 Test and Bestseller Lists
- 5. Accessing Physics Chapter 10 Test Free and Paid eBooks
 - Physics Chapter 10 Test Public Domain eBooks
 - Physics Chapter 10 Test eBook Subscription Services
 - Physics Chapter 10 Test Budget-Friendly Options
- 6. Navigating Physics Chapter 10 Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Chapter 10 Test Compatibility with Devices
 - Physics Chapter 10 Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Chapter 10 Test
 - Highlighting and Note-Taking Physics Chapter 10 Test
 - Interactive Elements Physics Chapter 10 Test
- 8. Staying Engaged with Physics Chapter 10 Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Chapter 10 Test
- 9. Balancing eBooks and Physical Books Physics Chapter 10 Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Chapter 10 Test
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Chapter 10 Test
 - Setting Reading Goals Physics Chapter 10 Test
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Chapter 10 Test
 - Fact-Checking eBook Content of Physics Chapter 10 Test
 - 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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