

ANSWERS & SOLUTIONS FOR AIEEE - 2010

CODE - A

PHYSICS, CHEMISTRY & MATHEMATICS PHYSICS

Directions: Questions number 1-3 are based on the following paragraph

An initially parallel cylindrical beam travels in a medium of refractive index

$\mu(I) = \mu_0 + \mu_2 I$, where μ_0 and μ_2 are positive constants and I is the intensity of the light beam. The intensity of the beam is decreasing with increasing radius.

1. The initial shape of the wavefront of the beam is

- 1) planar 2) convex
3) concave 4) convex near the axis and concave near the periphery

Ans: (3)

Sol: Conceptual

2. The speed of light in the medium is

- 1) maximum on the axis of the beam 2) minimum on the axis of the beam
3) the same everywhere in the beam 4) directly proportional to the intensity I

Ans: (2)

Sol: Conceptual

3. As the beam enters the medium, it will

- 1) travel as a cylindrical beam 2) diverge
3) converge 4) diverge near the axis and converge near the periphery

Ans: (3)

Sol: Conceptual

Directions: Questions number 4-5 are based on the following paragraph.

A nucleus of mass $M + \Delta m$ is at rest and decays into two daughter nuclei of equal mass

$\frac{M}{2}$ each. Speed of light is c .

4. The speed of daughter nuclei is

- 1) $c\sqrt{\frac{\Delta m}{M + \Delta m}}$ 2) $c\frac{\Delta m}{M + \Delta m}$ 3) $c\sqrt{\frac{2\Delta m}{M}}$ 4) $c\sqrt{\frac{\Delta m}{M}}$

Ans: (3)

Sol: $\Delta mc^2 = \frac{1}{2}Mv^2$

$$v = \sqrt{\frac{2\Delta mc^2}{M}}$$

$$v = \sqrt{\frac{2\Delta m}{M}}c$$

5. The binding energy per nucleon for the parent nucleus is E_1 and that for the daughter nuclei is E_2 . Then

- 1) $E_1 = 2E_2$ 2) $E_2 = 2E_1$ 3) $E_1 > E_2$ 4) $E_2 > E_1$

Ans: (4)

Sol: Conceptual

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Table of Contents Answer Key Of 2014 Aieee H Series

1. Understanding the eBook Answer Key Of 2014 Aieee H Series
 - The Rise of Digital Reading Answer Key Of 2014 Aieee H Series
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Of 2014 Aieee H Series
 - 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 Answer Key Of 2014 Aieee H Series
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Of 2014 Aieee H Series
 - Personalized Recommendations
 - Answer Key Of 2014 Aieee H Series User Reviews and Ratings
 - Answer Key Of 2014 Aieee H Series and Bestseller Lists
5. Accessing Answer Key Of 2014 Aieee H Series Free and Paid eBooks
 - Answer Key Of 2014 Aieee H Series Public Domain eBooks
 - Answer Key Of 2014 Aieee H Series eBook Subscription Services
 - Answer Key Of 2014 Aieee H Series Budget-Friendly Options
6. Navigating Answer Key Of 2014 Aieee H Series eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key Of 2014 Aieee H Series Compatibility with Devices
 - Answer Key Of 2014 Aieee H Series Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key Of 2014 Aieee H Series
 - Highlighting and Note-Taking Answer Key Of 2014 Aieee H Series
 - Interactive Elements Answer Key Of 2014 Aieee H Series
8. Staying Engaged with Answer Key Of 2014 Aieee H Series

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key Of 2014 Aieeee H Series
9. Balancing eBooks and Physical Books Answer Key Of 2014 Aieeee H Series
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Of 2014 Aieeee H Series
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key Of 2014 Aieeee H Series
- Setting Reading Goals Answer Key Of 2014 Aieeee H Series
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key Of 2014 Aieeee H Series
- Fact-Checking eBook Content of Answer Key Of 2014 Aieeee H Series
 - 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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