

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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DJ Losen



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Aieee B Acrh Answer Key 2014 By Resoanace Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Aieee B Acrh Answer Key 2014 By Resoanace**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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