

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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