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10th PHYSICAL SCIENCE – WORKSHEETS

by Sri. P.Raghava Kumar

Refraction of Light at plane surfaces

WORK SHEET-3

Refraction of Light at plane surface

Check your understanding.

1. Refraction of light obeys _____ law
 - a) Faraday
 - b) Ampere
 - c) Snell
 - d) Hook
2. If the angle of incidence is equal to critical angle, then angle of refraction is _____
 - a) 60°
 - b) 70°
 - c) 80°
 - d) 90°
3. What happens if Angle of incidence is greater than critical angle____
 - a) Reflection, Refraction
 - b) Refraction
 - c) Total internal reflection
 - d) Refraction, total internal reflection.
4. Snell's law is expressed as ____
 - a) $\frac{n_1}{n_2} = \frac{v_2}{v_1}$
 - b) $\frac{n_1}{n_2} = \frac{v_1}{v_2}$
 - c) $\frac{n_1}{n_2} = \frac{\sin r}{\sin i}$
 - d) $\frac{n_1}{n_2} = \frac{\sin i}{\sin r}$
5. The principle involved in mirage formation ____
 - a) Reflection
 - b) Refraction
 - c) Total internal reflection
 - d) None
6. Which statement among the following is true. When light refracts through plane Rectangular glass slab.
 - a) $\angle i > \angle e$
 - b) $\angle i = \angle e$
 - c) $\angle i = \angle r$
 - d) $\angle i < \angle e$
7. Critical angle of Diamond is _____
 - a) 22.4°
 - b) 23.4°
 - c) 24.4°
 - d) 25.4°
8. If the angle of incidence increases. what happens to lateral shift?
 - a) Decreases
 - b) Increases
 - c) remains constant
 - d) First increases and then decreases

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Padhraic Smyth



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