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10<sup>th</sup> 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)  $60^\circ$       b)  $70^\circ$       c)  $80^\circ$       d)  $90^\circ$
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)  $22.4^\circ$       b)  $23.4^\circ$       c)  $24.4^\circ$       d)  $25.4^\circ$
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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