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10<sup>th</sup> PHYSICAL SCIENCE – WORKSHEETS

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## 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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**SA Adler**



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