KITE VICTERS ONLINE CLASS 06-01-2021

PHYSICS - X-PART-3 CLASS 50



6 VISION AND THE WORLD OF COLOURS

Dispersion of light

R

* What are the colours seen on the screen? VIBGYOR

Violet (V) Indigo (I) Blue (B) Green (G) Yellow (Y) Orange (O) Red (R)

* Which colour deviates the most? Violet

* Which colour deviates least? Red

* What may be the reason behind this difference in deviation?

Difference in wavelengths.

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* What is this phenomenon? Explain.

Dispersion of light

- Dispersion is the phenomenon of splitting up of a composite light into its constituent colours. The regular array of colours formed by dispersion is the visible spectrum.

* What is composite light Any light that is composed of more than one colour is a composite light Ex: Suplight

Ex: Sunlight

* Which colour has the shortest wavelength? Violet

* Which one has the longest? Red

* When light passes through the prism, as the wavelength increases, how does the deviation change?

- When the wavelength of the colour decrease, the deviation increases

- When the wavelength of the colour increases, the deviation decrease

<u>Worksheet</u>

White light passing through a prism splits up into its component colours. Explain how this happens.