

# OPTICS

## Points to Remember

- ❖ Light is a form of energy which travels along a straight line
- ❖ The deviation in the path of light ray is called refraction.
- ❖ The ratio of speed of light in vacuum to the speed of light in a medium is defined as refractive index ' $\mu$ ' of that medium.
- ❖ Lens formula

$$\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$$

- ❖ Magnification (m) =  $\frac{h'}{h} = \frac{v}{u}$
- ❖ Power of lens.  $P = \frac{1}{f}$
- ❖ The ability of the eye to focus nearby as well as the distant objects is called power of accommodation of the eye.
- ❖ A microscope is an optical instrument which helps us to see the objects which are very small in dimension.
- ❖ Telescope is an optical instrument used to see the distant objects clearly.