

Q.31: Describe the power of a lens.

Ans: **The Power of a Lens:**

Lenses are used to converge or diverge the incident light rays. The ability of a lens to refract the rays of light depends on its focal length. For example, a convex lens with a shorter focal length bends the light rays through a higher convergence by focusing them closer to the optical centre.

Similarly, a very short focal length of the concave lens will cause the light rays to diverge at higher angles away from the focal point. The degree of convergence or divergence of light rays attained by a lens expresses its refractive power.

Definition:

The power of a lens is defined as the reciprocal of its focal length, measured in meters inverse (m^{-1}).

The power is represented by the letter P. The power P of a lens of focal length f is given by

$$P = \frac{1}{\text{focal length}} \quad \text{or} \quad P = \frac{1}{f}$$

S.I Unit of the Power of a Lens:

The S.I unit of power of a lens is the 'diopter'. It is denoted by the letter D. The power of a lens whose focal length is

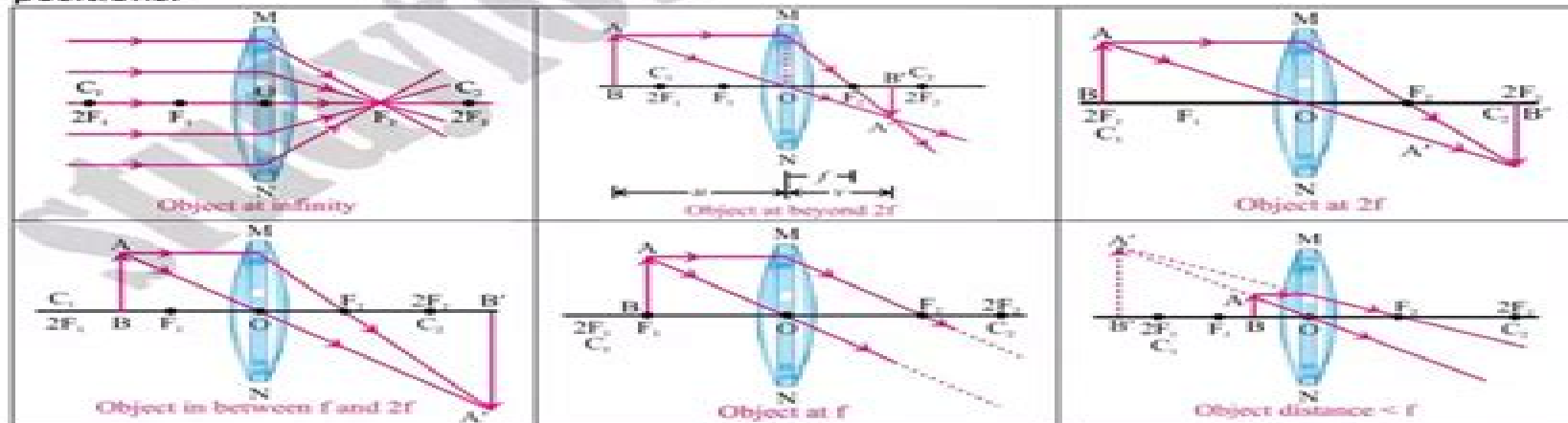
$$1\text{D} = 1\text{ m}^{-1}$$

It is always to be remembered that the power of a convex lens is positive, and that of concave lens is negative.

Q.32: How do images formed by lenses?

Ans: **Image Formation by Lenses:**

The ray diagrams illustrate the formation of images by a convex lens for various object positions.



Ray diagrams for the image formation by a convex lens

Geometric Optics Questions And Answers

L Cohen



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