

1^o Differentiate between Concavo - Convex lens and Convexo - ~~conv~~ concave lens.

Ans) <u>Concavo-convex lens</u>	<u>Convexo-concave lens</u>
<p>⇒ The convex face has a greater degree of curvature than the concave face.</p>	<p>⇒ The concave face has a greater degree of curvature than the convex face.</p>
<p>⇒ 1 Concavo-convex lens is thicker at outer boundary while thinner at middle.</p>	<p>⇒ Convexo-concave lens is thinner at middle and thicker at the boundaries.</p>

2^o What is the reason behind the sparkling of a diamond?

Ans Diamond Sparkle because of total internal reflection. Total internal reflection is a phenomenon that occurs at the boundary between two mediums, such that if the incident angle in the first medium is greater than the critical angle, then all the light is reflected into that medium.

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In which case the converging will be more, B_i-convex or plano-convex? Justify.

Ans

In biconvex lens as well as plano convex lens the converging of light rays will be equal. This is because if we take this two types of lenses with equal radii of curvature then the light rays will converge at focus only. Since the focal length will be equal in both cases the converging of light in both cases will be equal.