

① Differentiate between Concavo-convex lens and Convexo-concave lens. (Two points)

ans. Concavo-convex lens

Convexo-concave lens

① thicker at outer boundary and thinner at middle.

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② Convex face has a greater degree of curvature than the concave face.

② Concave face has a greater degree of curvature than the convex face.

③ what is the reason behind the sparkling of a diamond.

ans.

The sparkling of diamond is due to total internal reflection of light. As the refractive index is very high (d. is approx 2.42), so critical angle for diamond is very small. When the light enters

to it and face on it, it keeps on getting totally internally reflected. ~~idea~~ And at last when we see it a lot of light ~~comes~~ comes out through its cuttings, makes it sparkle.

③ In convex case converging will be more, bi-convex or plano-convex? Truly.

Ans. In case of plano convex converging will be more as it reduces the spherical nature and converges the ~~the~~ light to a single point.