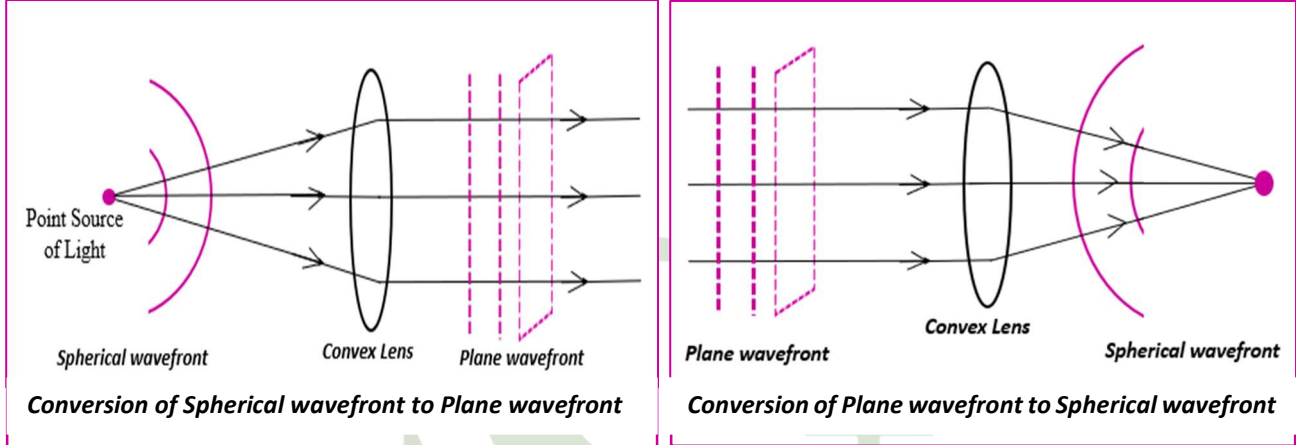


Note: We can convert spherical wavefront into plane wavefront and vice-versa.

When a spherical wavefront is kept at the focus of the lens, it changes into plane wavefront. Likewise, if convex lens is kept in the path of plane wavefront, spherical wavefront is formed.



Huygens wave theory:

Statement:

According to Huygens, a source of light sends out disturbances (wave) in all directions through a hypothetical medium called ether. These disturbances travel forward (away from light source) through the medium.

Postulates:

1. Every point on the wavefront become a secondary source of light which spread out in forward direction at the speed of light.
2. At any given time, a common tangential surface (envelope) on these wavelets in forward direction form a secondary wavelet.

