

## O.D.M Connect assignment

\* Define the terms : a ray of light and a beam of light.

As A ray of light  $\rightarrow$  A light wave propagating from one point to another along a straight line path, passing through each point on the line joining the two points, is termed as a ray of light. A ray is a path of a light wave represented by a line with an arrow. The arrow indicates the direction of in which light is travelling.

\* Beam of light: Bundle of rays of light are called beam of light. They are represented as parallel rays of light travelling in the same direction.

\* How can you obtain a point source of light?

Ans A point source of light is obtained either by placing a screen having a fine hole, in front of the luminous body, or by placing the luminous body inside a ~~box~~ box having a fine hole on one of its sides.

\* State two factors which affect the size of image formed in a pinhole camera. Is the image obtained in a pinhole camera erect or inverted? Give reason for your answer.

Ans The two factors which affect the size of image formed in a pinhole camera are:

- 1) The distance of screen from the pinhole.
- 2) The distance of object in front of the pin-hole.

The image obtained in a pinhole camera is ~~erect~~ inverted because the light travels in a straight line path. Hence, light from the upper point of the candle passes through the pinhole and strikes the tracing paper. The same thing happens with the lower part.