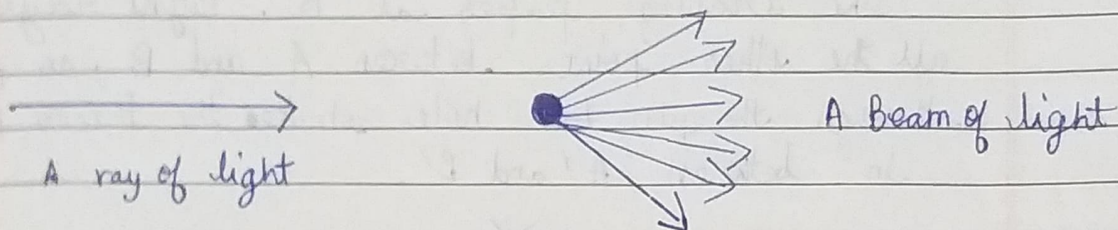


## Physics

Q Refine the terms

- i) A ray of light : The light travelling in any one direction in a straight line is called a ray of light.
- ii) A beam of light : A group of light rays given out from a source is called a beam of light



Q How can you obtain a point source of light?

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

Q State two factors which affect the size of image formed in a pin hole camera.

Ans Two factors which affect the size of image formed in a pin hole camera are :

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



Q Is the image obtained in a pinhole or camera erect or inverted? Give reason for your answer.

Ans Image obtained in a pin hole camera is inverted. The reason is that light travels in a straight line path. Hence, light from the upper point A of the candle passes through the pin hole and strikes the tracing paper at A'. Similarly, light from the lower point B of the candle passes through the pin hole and strikes the tracing paper at B'. Light rays from all the other points between A and B, on passing through the pin hole strike the tracing paper in between A' and B'.

