

1/12/21

1) Define the terms:

• a ray of light: Light travelling in a straight line path is called a ray of light.

• a beam of light: A group of rays travelling together is called a beam of light.

2) How can you obtain a point source of light?

A: We can obtain a point source of light by placing it in front of a screen having a fine hole.

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

A: • Distance of screen from the pin hole
• Distance of object in front of the screen.

4) Is the image obtained in a pin hole camera erect or inverted? Give reason for your answer.

A: The image obtained in a pin hole camera is inverted. This is because light travels in a straight line path. Light from the upper part of the

candle passes through the pin hole and strikes the tracing paper ~~at~~. Similarly, light from the lower point of the candle passes through the pin hole and strikes the tracing paper. Light rays from all the other points between. On passing through the pin hole strike the tracing paper. As a result the image formed on the tracing paper is inverted.