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Physics

1. Define the terms: a ray of light and a beam of light

2. How can obtain a point source of light?

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

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

Answer

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

2- A point source of light is obtained either

by placing a screen having a fine hole in front of die luminous body or by placing the luminous body inside a box having a fine hole on one of its side.

3- Factors affecting the size of the image:

- The distance of the screen from the pinhole.
- The distance of the object in front of the pinhole.

4- Image obtained in a pinhole camera is inverted. This happens because the light travels in a straight line path. Hence light from the upper point of the object when passes through the pinhole and strikes the tracing paper at the lower end and the light from the lower part of the object when passes through the pinhole strikes the upper end of the

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Tracing paper