

Hw = 30-11-2021
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class - 6 sec - B
Physics homework

1. Define the terms

(i) a ray of light and a beam of light

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

(ii) How can you obtain a point source of light?

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

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

Ans: • The distance of screen from the pin hole.
• The distance of object in front of the pin hole.

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

Ans: An inverted image is formed in a pinhole camera because the light rays coming from the top and bottom of the object intersect at the pinhole. Thus, we get an upside down image due to linear propagation of light through the hole of the pinhole camera.