Q Define the terms: a ray of light and a beam of light. How can you obtain a point source of light? State two factors which affect the size of image formed in a pin hole camera. Is the image obtained in a pin hole camera erect or inverted? Give reason for your answer.

Ans) Ray of Light: A light wave propagation 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.

Beam of light: Bundle of lights are called beam of light. They are represented as parallel ray of light travelling in the same direction.

State two factors which affect the size of image formed in a pinhole camera?

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

Ans) If the object is moved away from the pin hole (ie. the distance of object from the pin hole is increased) the size of the image decreases.

If another pin hole is made near the first pinhole, two images are formed on the screen, one due to each of the two pin holes. If the holes are very close, the two images tend to overlap each other. As a result, a blurred image will be seen

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

Ans) The image obtained in a pin hole camera is inverted. Beause due to the Rectilinear Propagation of Light.