

keeping the frame at a distance of 15cm from its pole.

(a) Write the type of mirror he should use?

(b) Find the linear magnification of the image produced.

(c) What is the distance between the object and its image?

Q.4. A convex mirror used for rear view on an automobile has a radius of curvature of 3m. If a bus is located 5m find the position, nature and size of the image.

Q.5. A candle is placed 12cm in front of a convex mirror. When the convex mirror is replaced with a plane mirror the image moves 8.5cm further away from the mirror. Find the focal length of convex mirror.