

(b) An object of height 5 cm is placed 20 cm from a pin-hole camera which is 5 cm long.
Calculate;
(i) the magnification. (2marks)

(ii) the height of the image formed. (2marks)

12. (a) An object of height 4 cm is placed 5 cm away from a pin-hole camera. The screen is 7 cm from the pinhole.

(i) Draw a scale a ray diagram to show the formation of an image by a pinhole camera. (2marks)

(ii) What's the nature of the image? (2marks)

(iii) Find the magnification. (2marks)

(iv) Calculate the height of the image formed by the pinhole camera. (2marks)

(b) Explain what happens to the image if;

(i) the pinhole is made larger. (3marks)

(ii) very small. (3marks)

END.