

(5)

DETERMINATION OF FOCAL LENGTH OF CONVEX LENS

AIM: Determination of focal length of a convex lens by u-v method.

APPARATUS REQUIRED: Optical bench, pin holder, lens holder, pins, lens, half metre scale.

PROCEDURE

Measurement of rough focal length of the given convex lens by distance-image method

Arrangement of object pin, lens, image pin on the optical bench so that the tip of the two pins and the optical centre of the lens lie in the same plane and line.

Adjustment of the object pin and the lens and the image pin in the no-parallel position.

Approximate focal length of the convex lens = 10.5 cm