EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR SECOND SEMESTER EXAMINATION IN SCIENCE –

2021/2022

(Aug/Sep – 2024)

PH 1041-ELEMENTARY PHYSICS LABORATORY II

Time: $1\frac{1}{2}$ hours

Answer ALL Questions

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a) Find the approximate focal length of the given convex lens.

b) Arrange an experimental set up to find the focal length of the convex lens with the given apparatus.

c) Write down the relationship between focal length, object distance and image distance for a convex lens using new sign convention.

d) Tabulate the image distances for different object distances.

e) Draw a suitable graph and calculate the focal length of given convex lens.