**EXPERIMENT 10**

**CONVEX LENS**

**Day & Date:**

Aim: To determine the focal length of a convex lens by plotting graph between u & v.

Theory:

 Focal length of the given convex lens can be calculated using

$$\frac{1}{f}=\frac{1}{v}-\frac{1}{u}$$

RAY DIAGRAM:

OBSERVATIONS:

|  |  |  |  |
| --- | --- | --- | --- |
|  Sl. No. | Position of  | Object distance (u) cm | Image distance (v) Cm |
| Object (O) | Lens(L) | Image (I) |
| 01 |  |  |  |  |  |
| 02 |  |  |  |  |  |
| 03 |  |  |  |  |  |
| 04 |  |  |  |  |  |
| 05 |  |  |  |  |  |

**Result:**

**Mean focal length of the given convex lens using the u-v graph =**