**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

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 =**