**EXPERIMENT 13**

**REFRACTIVE INDEX OF A GLASS SLAB**

**Day & Date:**

Aim: To determine refractive index of the given glass slab using a travelling microscope.

Theory:

 R.I of glass slab = Real depth / Apparent depth.

RAY DIAGRAM:

OBSERVATIONS:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No | Without slab | With slab | With mark on the slab | Refractive index = $\frac{R\_{3}-R\_{1}}{R\_{3-R\_{2}}}$ |
| MSR VSR R1 | MSR VSR R2 | MSR VSR R3 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

 Mean R.I =

RESULT:

 Refractive Index of the given glass slab = …………..