**A Formal Physics Laboratory Report**

EXPERIMENT

**DETERMINING COEFFICIENT OF VISCOSITY OF LIQUID**

|  |  |
| --- | --- |
| Class: ………….…. / Group: ………………. | Lecturer’s comment |
| Full name:  1) ……………………………………………...  2) ……………………………………………...  3) ……………………………………………...  4) ……………………………………………... |  |

1. **Abstract:**

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

1. **Equipment list:**

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

1. **Background:**

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

1. **Materials, Methods And Procedures:**

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

............................................................................................................................................................

1. **Results:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| - Accuracy of  - Caliper: 0,01 (mm)  - Time meter: 0,001(s)  - Diameter of vertical tube:  D = 35,00 ±0,01(mm)  - Mass of the marbles: m = ……±0.01 (g) | | | \* Density of oil: = 895±89 (kg/m3)  \* Distance: L = ......±……(mm) | | |
| Data | d (mm) | Δd (mm) | | τ ( s ) | Δτ ( s ) |
| 1 |  |  | |  |  |
| 2 |  |  | |  |  |
| 3 |  |  | |  |  |
| 4 |  |  | |  |  |
| 5 |  |  | |  |  |
| Mean |  |  | |  |  |

1. **Calculations:**

and

and

***4.1Calculating the total absolute errors of the measurement of diameter d, timer , distance L***

***4.2 Calculating the density of the marble and the relative error:***

and =>

***4.3*** ***Calculating the coefficient of viscosity of liquid and the relative error:***

and

=>

1. **Conclusions:**