**Experiment 1: Voltage Measuremnet**

**Experiment 1.1:Volatge drop across and no-load voltage**

1. Metrahit | Tech Multimeter

**2.963 V**

2. Metrahit 15S (1849)

**2.964 V**

3. UniCTor A43

**2.963 V**

We used three measurement instrument : Metrahit | Tech Multimeter, Metrahit 15S (1849), UniCtor A43. Results of these different devices are almost same.

**Experiment 1.2: Internal Resistance Ri**

Using half-deflection method we had to get 2.963 / 2 = 1.4815 V by all measurement devices.

|  |  |  |
| --- | --- | --- |
| **Metrahit | Tech Multimeter** | **Metrahit 15S (1849)** | **UniCtor A43** |
| 103.2 Ω | 103.2 Ω | 106 Ω |

**Experiment 1.3: Voltage Divider**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **C1-C2** | **C2-C3** | **C3-C4** | **C4-C5** | **C5-C6** |
| Calculated | 2.2 | 1 | 1 | 0.47 | 0.33 |
| Measured | 2.203 | 0.9951 | 0.9950 | 0.4693 | 0.3284 |
|  | **C1-C3** | **C2-C4** | **C3-C5** | **C4-C6** |
| Calculated | 3.2 | 2 | 1.47 | 0.8 |
| Measured | 3.198 | 1.989 | 1.463 | 0.7978 |
|  | **C1-C4** | **C2-C5** | **C3-C6** |
| Calculated | 4.2 | 2.47 | 1.8 |
| Measured | 4.193 | 2.458 | 1.792 |
|  | **C1-C5** | **C2-C6** |
| Calculated | 4.67 | 2.8 |
| Measured | 4.663 | 2.787 |