OBSERVATIONS:-

To Calibrate the given voltmeter Length of the wire balancing the e.m.f of the Daniel cell (lo): $\frac{291 \times 10^{-2} \text{ m}}{}$

| 8. No | Voltmeter reading (V) volt | Balancing Length (l) m | Calculated Voltmeter reading. V' = 1.08 x l (valt) | Volume |
|-------|--|---------------------------|---|---------|
| 1 | 0.1 | 41.1 | 0.1525 | 0.0525 |
| 2 | 0.2 | 65.9 | 0.2445 | 0.0445 |
| | 0.3 | 93.7 | 0. 3477 | 6.0477 |
| 3 | 0.4 | 123.7 | 0.4590 | 0.059 |
| 4 | 0.5 | 153-3 | 0.5689 | 0.0689 |
| 5 6 | 0.6 | 160.7 | 0.5964 | -0.0036 |
| - | 0.7 | 197.7 | 0. 7337 | 0. 0337 |
| T | 0.8 | 225.8 | 0.8380 | 0.038 |
| 8 | The second secon | 233.9 | 0.8680 | -0.032 |
| 9 10 | 0.9 | 260.7 | 0.9675 | -0.0325 |

Calculation:

1. V': 1.08 x 41.1

V' = 0.1525

V' = 0.2445

07.11. 2022 2) Calibration of Voltmeter using Potentiometer In X-axis 1 Cm = 0.1 V Im y - axis 1 Cm = 0.1 V 0.9 0.8 0-7 0.6 0-5 0.4 0.3 0 2 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 V(volt)

