**UNIVERSITY OF GAZİANTEP**

**DEPARTMENT OF ENGINEERING PHYSICS**

**EP 436 ENGİNEERİNG PHYSICS LABORATORY – II**

**Exp 1: Characteristic of a Geiger-Müller Tube**

**Name-Surname:**

**Student ID:**

**Submission Date:**

**DATA SHEET**

**Table 1: The plateau region of the Geiger-Müller Tube**

|  |  |
| --- | --- |
| **Applied Voltage (V)** | **Counts per Minute (cpm)** |
| **500** | **0** |
| **550** | **18** |
| **600** | **75** |
| **650** | **166** |
| **700** | **168** |
| **750** | **169** |
| **800** | **214** |
| **850** | **261** |
| **900** | **2358** |

**Calculations:**

* Draw the counts per minute versus voltage graph by using the Table 1 data
* Show the following points in our graph as seen in Figure 1.1 in laboratory book.

Starting voltage

Threshold of plateau

Geiger plateau

Breakdown voltage

* Explain briefly the working principle of the Geiger-Muller tube.