**UNIVERSITY OF GAZİANTEP**

**DEPARTMENT OF ENGINEERING PHYSICS**

**EP 436 ENGİNEERİNG PHYSICS LABORATORY – II**

**Exp 2: Background Counting**

**Name-Surname:**

**Student ID:**

**Submission Date:**

**DATA SHEET**

**Table 1:** Experimental values of the background radiation

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Number** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| **Counts (cpm)** | 5 | 6 | 6 | 1 | 3 | 8 | 5 | 2 | 4 | 5 | 4 | 5 | 3 | 4 | 4 | 5 | 5 | 5 | 4 | 3 |

**Calculations:**

* Tabulate the number of times each count was obtained by using the Table 1 values as below

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Counts (cpm)** |  |  |  |  |  |  |  |
| **Number of times obtained** |  |  |  |  |  |  |  |

* Plot a graph of the number of times obtained versus count values as seen in Figure 2.2 in Lab book.
* Give information about the natural radiation sources.