**Assignment 5: Frequency Stability**

**[Q1]**

Tabel : Frequency dynamic after a disturbance

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Loss of Load | | | Loss of Generator | | |
| ΔPload | -1000 | -500 | -100 | 1000 | 500 | 100 |
| Frequency | 54.99 | 52.49 | 50.05 | 45.01 | 47.51 | 49.05 |

**[Q2]**

Tabel 2: Frequency dynamic after a disturbance

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Loss of Load | | | Loss of Generator | | |
| ΔPload | -1000 | -500 | -100 | 1000 | 500 | 100 |
| Frequency | 49.99 | 49.99 | 50 | 50.01 | 50.01 | 50 |

**[Q3]**

Tabel 3: Frequency dynamic after a disturbance

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Loss of Load | | | Loss of Generator | | |
| ΔPload | -1000 | -500 | -100 | 1000 | 500 | 100 |
| ΔF1 | 12.93 | 12.94 | 12.95 | 12.98 | 12.97 | 12.96 |
| ΔF2 | 10.58 | 10.57 | 10.56 | 10.54 | 10.55 | 10.56 |