Učo : Group: Date:

 Month:

 Year:

**Name**:

**V. NOTICE:** [ ] fill in the units in the square brackets

**Task: Thermocouple**

Key words: voltage, electric current, temperature, semiconductor, conductor, insulator

Calibration values:

|  |  |
| --- | --- |
| Temperature [ ] | Voltage [ ] |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Calibration graph:



**x - axis ………………………………… [ ]**

Measured values:

|  |  |  |
| --- | --- | --- |
| Position | Voltage [ ] | Determined temperature [ ] |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Calculation of Seebeck coef. α :

 [ ]

Discussion

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion:

**Task: Blood pressure**

Key words: systole, diastole, pressure, Pascal unit, mmHg unit

Manual tonometer:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Blood pressure: | mmHg |  | kPa |  |
| measurement |   | syst. | diast. | syst. | diast. |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
| mean value |   |   |   |   |   |
| median value |   |   |   |   |   |

Example of calculation of blood pressure from mmHg to kPa :

Digital tonometer:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Blood pressure: | mmHg |  | kPa |  |
| measurement |   | syst. | diast. | syst. | diast. |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
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|   |   |   |   |   |   |
| mean value |   |   |   |   |   |
| median value |   |   |   |   |   |

Discussion

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion: