Učo : Group: Date:

Month:

Year:

**Name**:

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

**Task: Conductometry**

Key words: conductivity, Siemens unit, resistance, physiological saline solution

|  |  |  |
| --- | --- | --- |
| sample | Temperature [ ] | Conductivity [ ] |
| tap water |  |  |
| distilled water |  |  |
| saturated salt solution |  |  |
| physiological saline solution |  |  |
|  |  |  |

Discussion

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

Possible errors and accuracy:

Conclusion:

**Task: Audiometry**

Key words: sound intensity, level of intensity, decibel unit, hearing range

Measured values:

|  |  |  |
| --- | --- | --- |
| Frequency (Hz) | Level of the intensity - left ear [ ] | Level of the intensity - right ear [ ] |
| 125 |  |  |
| 250 |  |  |
| 750 |  |  |
| 1000 |  |  |
| 1500 |  |  |
| 2000 |  |  |
| 3000 |  |  |
| 4000 |  |  |
| 6000 |  |  |
| 8000 |  |  |

Graphs of the dependence of threshold level of the intensity (Y axis) on frequency (X axis) - both left and right ears. Highlight (eg with a circle) the minimal and maximal values:





**x - axis ………………………………… [ ]**

Discussion

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

Possible errors and accuracy:

Conclusion:

**Task: Doppler ultrasonic flowmeter**

Key words: ultrasound, doppler effect, systole, diastole

(You will measure the rate of blood flow - velocity - over time in this task. The flow rate changes as the heart muscle contracts = systole and dilates=diastole)

Measured values:

|  |  |  |
| --- | --- | --- |
|  | Left hand -velocity [ ] | Right hand- velocity [ ] |
| Systolic section |  |  |
| Diastolic section |  |  |
|  | | |

Plot the waveform of doppler signal for right or left hand (redraw the graph from the device display):



**x - axis ………………………………… [ ]**

Discussion

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

Possible errors and accuracy:

Conclusion: