

Family name: Student ID (Matrikelnummer):

Please use an empty sheet of paper (or the printed questions) to write down your name and your answers (also write the number of question). Adjust your camera so that you can be seen when writing. This is not an open-book exam, it is not allowed to use any notes, texts or other resource materials.

You have 30 minutes for the answers, then please take a photo or scan your answers and upload them to TUWEL or send via Email to paul.panek@tuwien.ac.at. Stay connected until confirmation that your answers are readable.

S1: 19-17

U2: 16,5-14,5

B3: 14-12

G4: 11,5-10

N5: 9,5-0

Please only give SHORT answers especially if no description is requested, it's not the length that counts!

1. What causes a **Down-Syndrome**? What are characteristic symptoms? (2 Pt.)

Cause:

Symptoms:

2. Advantage of an **intelligent emergency call** system over traditional senior alarms? (1.5 Pt.)

Advantage:

.....

Method 1:

Method 2:

3. List **human sensor systems** (senses) and compare their characteristic properties (3 Pt.)

a)

.....

b)

.....

c)

.....

4. What environment/design **requirements do blind persons have** and why? (2 Pt.)

a)

.....

b)

.....

c)

.....

d)

.....

5. What is the difference in methods between **speech audiometry** and **audiogram**? (2 Pt.)

Speech audiometry:

.....

Audiogram:

.....

6. What are **advantages of using mainstream** devices instead of assistive devices? (2 Pt.)

a)

.....

b)

.....

c).....

.....

d)

.....

7. What important changes did the **ICF** implement over **ICIDH**? (2 Pt.)

.....

.....

8. For Braille displays theoretically several **stimulation principles** are possible. Which of them have gained (until now) **NO practical importance**? (1 Pt.)

Check with „X“ the NOT im- portant ones	<input type="checkbox"/>	Heat (thermal stimulus)
	<input type="checkbox"/>	Pressure (static)
	<input type="checkbox"/>	Electrical irrigation (electrocutaneous stimulation)
	<input type="checkbox"/>	Vibration (variable/dynamic pressure)
	<input type="checkbox"/>	Surface texture

9. List the 3 **goals of Rehabilitation Engineering** (1.5 Pt.)

1:

2:

3:

10. Which **aids for using money** do you know for blind persons? List two of them! (2 Pt.)

a)

b)