

## CS-C3120 Human-Computer Interaction

EXAM 16.1.2024

*General instructions:*

- Write your name, student number and your signature to each paper
- Allowed equipment: Pen and paper
- Language: The recommended language is English, but the answers can be written in Finnish or in Swedish

**1) Definitions of key concepts in the context of Human-computer interaction (HCI) and Human-centred design (HCD) (12p)**

Describe the following key concepts and provide examples.

- a) Affordance (max 3p)
- b) User interface (UI) (max 3p)
- c) User experience (UX) (max 3p)
- d) Accessibility (max 3p)

**2) Multimodal user interfaces and modalities of human-computer interaction (max 8p)**

Introduce two common modalities of human-computer interaction: Haptic and Visual. Provide examples.

**3) Methods of user-centred evaluation (max 10p)**

Heuristic evaluation and usability testing are two commonly used and widely known methods of user-centred evaluation.

- a) Introduce these methods: Heuristic evaluation and usability testing (max 6p)
- b) Compare the methods with each other, for example, from the perspectives of planning the evaluation, procedure of the evaluation, required resources for conducting the evaluation, and produced results (max 4p)