

i IN2020 Trial exam information

Exam IN2020 fall 2018

Time:

7. December, 14.30-18.30

Lecturers will take a round from 15.30.

Examination support material

No examination support material is allowed.

1 IN2020 Trial exam multiple choice questions

Instructions: For each question, select the alternative that represents the correct answer.

Notice: In the actual exam, the this assignment will consist of 25 questions

1. What does a thorough and well-documented research procedure ensure us?

Velg ett alternativ

- Inter-coder reliability
- Validity
- Reliability
- Intra-coder reliability

2. How many steps is there typically in a Grounded Theory process?

Velg ett alternativ

- Four
- Six
- Eight
- None of the alternatives

3. At which level do you typically decide on a qualitative or quantitative approach?

Velg ett alternativ

- Methodological
- Methodical
- Can be both
- None of the alternatives

4. What type of data do we typically collect with diaries?

Velg ett alternativ

- Quantitative
- Qualitative
- Both
- None of the alternatives

5. What type of diary gives the researcher the most control?

Velg ett alternativ

- Informal diary
- Elicitation diary
- Feedback diary
- No difference

6. What is it called when the analysis codes emerge from the data?

Velg ett alternativ

- A priori coding
- Emergent coding
- Axial coding
- None of the alternatives

7. What is grounded theory?

Velg ett alternativ

- Method
- Methodology
- Approach
- Technique

8. When can we conduct usability testing?

Velg ett alternativ

- At any time
- After every new prototype
- Only in the later stages
- Only in the early stages

9. What kind of product or prototype is needed for a summative test?

Velg ett alternativ

- We do not need a product or prototype
- Both low-fi and hi-fi can be used
- Only low-fi
- Only hi-fi

10. In a dataset with a relative normal distribution and without extremes, which central tendency would you use as a starting point?

Velg ett alternativ

- Median
- Modal value (type number)
- Average
- Interval (range)

11. What is NOT an essential component of research through design?

Velg ett alternativ

- Criticism
- Building/making
- Evaluation
- None of the alternatives

12. When are we typically doing software testing and benchmarking?

Velg ett alternativ

- User testing
- Expert-based testing
- Automated testing
- None of the alternatives

Maks poeng: 12

2 IN2020 Trial exam questions

Instructions: For each question, provide a short answer (approximately 5 sentences):

1. What is experimental research and what is it used for in HCI? What are its strengths and weaknesses?

Skriv ditt svar her...

2. Explain the difference between random errors and systemic errors in experimental design. Give at least one example of how systemic errors can be generated?

Skriv tekst her

3. What is a case study? Explain the main characteristics of case studies? What are the main differences between ethnographic studies and case studies?

Skriv tekst her

4. What kind of analysis is common for case studies? Explain this type of analysis.

Skriv tekst her

5. What is an interview? What different types of interview exists? What is the difference between a group interview and a focus group?

Skriv tekst her

6. What is a diary and what different types of diaries exist? What are the differences between these types of diaries and what purposes do they serve?

Skriv tekst her

7. What different types of usability testing exists? Which different purposes do they serve?

Skriv tekst her

8. How are diaries useful in HCI research? Give at least one example of a relevant diary and explain the approach to conducting this.

Skriv tekst her

9. What are the advantages and disadvantages of doing statistical analysis? What kind of problem would you use it as a definitive method of choice?

Skriv tekst her

10. What is informed consent? Why do you need to get it? How do you get it?

Skriv tekst her

Maks poeng: 10

3 IN2020 Trial exam - open assignment

Design an HCI study












In order to become specialists at Helse Sør-Øst, all doctors need to have certain qualifications, such as: 5000 hours of work completed, 16 courses completed, 4 certificates received, 3 scientific papers and 5 references. Application for becoming a specialist is done in 2 phases, after all courses and certificates, and then after completed hours of work.

For doctors with plenty to do, this is not an easy process. Currently, they have an office where they file all this in person, but sometimes it takes a long time before they remember to report a course completed or a paper written. To make it easier, you are to design a system that helps collect all data that is needed for becoming a specialist.

In order to respond to this assignment, you must:

- Describe stakeholders and other elements you consider important for your design case.
- Chose and thoroughly describe an approach to solve this problem (a methodology, or a collection of methods that will provide a good solution for both Helse-Øst administration and the doctors). Justify your choice.
- Describe your design process.
- Describe your evaluation process.
- The length of your response should be between 800-1200 words

Fill in your answer here

Format | **B** | *I* | U | x_2 | x^2 | I_x |  |  |  |  |  |  |  |  |  |  | 

Words: 0

Maks poeng: 10