

CSC 2/412: Human-Computer Interaction

Spring of 2017

Sample Midterm

- List and explain the 4 components of Contextual Inquiry?
- List two advantages of interviewing the lead users (i.e., fanatics)?
- Define process mapping in the context of needfinding?
- Explain the Hawthorne effect.
- What is a culture context interview?
- In need finding, when do you know that you have finally reached the a-ha moment?
- Why is it a good idea to introduce redundancies in surveys?
- List two disadvantages of using Surveys.
- Imagine that you are designing a survey and you want to make sure that the participants are paying attention to the questionnaire (as opposed to randomly filling it out). List any of the two techniques that you can use.
- What is paper prototyping? Advantages? Disadvantages?
- Explain between and within subjects experiments?
- What are the disadvantages of between subjects design?
- What are the disadvantages of within participants design?
- How would you design an experiment where you could bring the best of both between and within participants design? (hint: counter balancing) Feel free to draw to convey your points.
- What is a *p-value*?
- What is null and alternate hypothesis?
- What are independent and dependent variables?
- What are the strategies for qualitative content analysis?
- What are the differences between cross-sectional and longitudinal studies?
- How to do a Chi square Test to measure significant? (e.g., coin example)