a. 1		
Student	Initials:	

CS-428+828 Midterm Exam October 22, 2018, 13:30– 14:20, CK185 D. Hepting

This is a closed book exam. You must maintain the confidentiality of your examination; do not provide any opportunity for others to copy any of your work. Electronic devices are NOT permitted during the exam. Please turn off and put away all cell phones and other electronic devices during the exam period.

ANSWER ALL QUESTIONS. All answers must be written on this exam in the space provided. You have 50 minutes to complete the exam. Please plan your answers, favour quality over quantity, do not exceed the space

provided, and do your best to write legibly. QUESTIO contributes 10 percent towards your final grade. The experimental provided is a second of the provided in	NS ARE ON BOTH SIDES OF THE PAPER. This exam xam is marked out of 25.
Name (printed):	
Signature:	
Describe your position within the room:	

Q1. (2 marks) Can you design a user's mental model of best answer]:	f your software? Can you influence it? [Fill in circle beside
a) O Yes, can design; yes, can influenceb) O Yes, can design; no, cannot influence	c) O Yes, can influence; no, cannot designd) O No, cannot influence; no, cannot design
Q2. (2 marks) Give one example of a tradeoff in design	n.
	map? Indicate if each deals with user experience OR usability.
Quadrant 1	Quadrant 2
Quadrant 3	Quadrant 4
Q4. (2 marks) What is needed in the description of an a	atomic requirement?
Q5. (2 marks) Why is the marble answering machine in	mportant?

Q6. (10 marks) How do Nielsen's 10 Usability Heuristics for User Interface Design (listed below) relate to the Gulfs of Execution and Evaluation? In the space below, indicate for each heuristic whether it deals with neither gulf, both gulfs, execution, or evaluation. Also, briefly, explain why. A sample interface is pictured below. You are not required to reference it in your answer.

- Visibility of system status
 Match between system and the real
- 3. User control and freedom
- 4. Consistency and standards
- 5. Error prevention
- 6. Recognition rather than recall
- 7. Flexibility and efficiency of use
- 8. Aesthetic and minimalist design
- 9. Help users recognize, diagnose, and recover from errors
- 10. Help and documentation



H01.		
H02.		
H03.		
H04.		
H05.		
H06.		
H07.		
H08.		
H09.		
H10.		
Q7. (2 marks) Describe the metaphor for the interface pictured above. What is an alternative metaphor?		