Student	Initiale	
Smaeni	mmais	

CS-428+828 Final Exam December 14, 2022, 9:00 – 12:00, ED 388 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 180 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. QUESTIONS ARE ON BOTH SIDES OF THE PAPER. This exam contributes 20 percent towards your final grade.

Name (printed):
Student Number:
Signature:

Q1. (2 marks) What is a mental model and can a designer create one for a user?
Q2. (2 marks) Explain the purpose of an interface metaphor.
Q3. (2 marks) Why do designers make tradeoffs?
Q4. (2 marks) Why is empathy important for a designer?
Q5. (4 marks) Explain an aspect of this course that you learned through your project work

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Q6. (2 marks) In terms of the gulfs between the user and the computer, what is the purpose of information design and interaction design?				
Q7. (2 marks) Is it the responsibility of a designer to only build what their client requests?				
Q8. (4 marks) What were the benefits	of testing your low-fidelity pr	ototype?		
Q9. (4 marks) How does Gladwell's T	TED talk apply to design?			
Q10. (2 marks) What is similar between qualitative and analytical evaluation?				
Q11. (2 marks) What guidance does Fitts' Law give us?				

Q12. (2 marks) What is different between analytical and empirical evaluation?

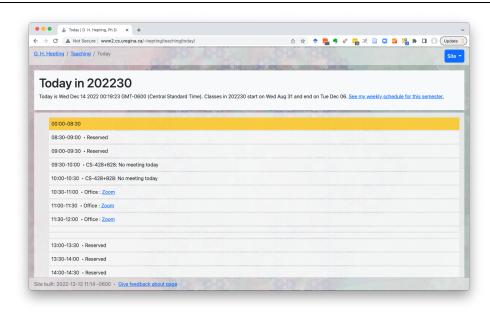
Q17. (3 marks) Match the following terms with their definitions by writing the letter associated with term into the box preceding the matching definition.

Terms: A. empathy; B. telepathy; C. sympathy; D. apathy

☐ Lack of interest, enthusiasm, or concern.

☐ The ability to understand and share the feelings of another.

Q18. (1 mark) How did we come up with a "15% 15%"?



Q19. (6 marks) The screenshot on the preceding page is today's date from hepting/teaching/today/ . Is the information useful? If not, how would you improve the design?		
(room to sketch)		
Q20. (6 marks) Present an updated design of the marble answering machine for the web (where the interface will be all done in software). Sketches are encouraged.		

(room to sketch)

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Q21. (10 marks) With a goal of creating a " $1\frac{5}{8}$ $1\frac{5}{8}$ " (similar to a "double double"), evaluate the interface shown below in terms of the gulfs of execution and evaluation and suggest improvements.



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(room to sketch)