Student	

Department of Computer Science

College of Engineering, University of Nevada, Reno

CS 420 Human Computer Interaction

Midterm Exam #1

October 18, 2012

Test type: Closed-book examination

Number of questions: 6

Total points: 60

Test weight: 14% of the course grade

Time: 70 minutes

Questions:

- 1 Comment on the significance of achieving *cultural and international diversity* from the perspective of universal usability. Indicate at least 6 concerns or items for internationalization (e.g., date and time formats). [10 points]
- **2** Consider the following four *primary interaction styles*: direct manipulation, menu selection, form fill-in, and command language. For each of them indicate two advantages and one disadvantage. [10 points]
- Indicate what Shneiderman and Plaisant (the textbook's authors) consider to be *the four pillars of successful user-interface development*. Briefly explain why each of these pillars is considered important for the user interface design process (2-4 lines each). [10 points]
- **4** Describe <u>one</u> of following expert review methods: *heuristic evaluation* or *cognitive walkthroughs*. [10 points]
- **5** Choose <u>one</u> of the following types of usability testing: paper mockups and prototyping, discount usability testing, or remote usability testing. Describe the chosen method and indicate its advantages and disadvantages. [10 points]
- **6** Explain what is meant by *virtual reality* and by *augmented reality*. Also, briefly comment on three technologies (e.g., visual display) important for the creation of successful virtual environments.

 [10 points]