Student _____

Department of Computer Science

College of Engineering, University of Nevada, Reno

CS 420 Human Computer Interaction

Midterm Exam #2

November 27, 2012

Test type: Closed-book examination

Number of questions: 6

Total points: 60

Test weight: 17% of the course grade

Time: 70 minutes

Questions:

1 Chose 3 out of the following 6 types of non-standard interaction devices: *multi-touch touchscreens*, *bimanual input devices*, *foot controls*, *eye-trackers*, *multiple-degree-of freedom devices*, and *tangible user interfaces*. For each of the selected three types, provide a brief description and suggest a couple of applications in which they can be used.   [10 points]

2 In relation with collaborative interactions and interfaces, explain what is meant by: *teleconferences*, *collaboratories*, and *telepresence*.   [10 points]

3 Consider *web page design* and indicate 5 mistakes that should be avoided when presenting web-based information (an example of such mistake is "burying information too deep in a web site"). Briefly explain why it is important to avoid each of the 5 possible mistakes.   [10 points]

4 Indicate at least 6 advantages (or "positive sides") and at least 4 disadvantages (or "negative sides") of using *online documentation*.   [10 points]

5 Consider the following types of visualization data: *multidimensional data* and *temporal data.* Briefly describe each of the two types, give a couple of application examples for each, and indicate at least two tasks that the users can perform on each type of data.   [10 points]

6 Data visualization involves *7 typical basic user tasks* (an example of such task is "zoom"). Briefly describe 5 of such tasks and explain why they are useful.   [10 points]