Student _____

Department of Computer Science

College of Engineering, University of Nevada, Reno

CS 620 Human Computer Interaction

Midterm Exam #2

November 20, 2014

Test type: Closed-book examination

Number of questions: 7

Total points: 65

Test weight: 17% of the course grade

Time: 70 minutes

Questions:

1 Choose 3 types of *indirect-control pointing devices*. For each of the selected types provide a short description and indicate 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: *electronic commerce*, *online communities*, and *telepresence*.   [10 points]

3 Consider *error messages.* Briefly describe 4 guidelines for the end product. Illustrate two of the guidelines with concrete examples of improved error messages (i.e., an initially poor and then a better message that follows the guideline).   [10 points]

4 Compare and contrast *online documentation* with *paper documentation*.   [10 points]

5 Consider the following types of visualization data: *2D map data* and *multidimensional data.* Briefly describe each of the two types, give a couple of application examples for each, and indicate typical tasks that the users can perform on each of these data types.   [10 points]

6 Comment on *keyboards* and other *text entry* methods for mobile devices -- briefly indicate their characteristics, advantages, and limitations.   [10 points]

7 Briefly describe 4 *challenges* or areas of research for *Information Visualizatio*n (2-3 lines each).   [5 points]