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Department of Computer Science
College of Engineering
University of Nevada, Reno

CS 791m Human-Computer Interaction

Midterm Test #2

November 12, 2003

Test type: Closed-book examination
Number of questions: 12
Total points: 33
Test weight in course grade: 14%
Time: 70 minutes
Notes:

- For questions **1 to 7** indicate the correct answer (only one) on the answer sheets provided by the instructor. Each of the questions **1 to 7** has a one point value for a group total of 7 points.
- Questions **8 to 12** require that you elaborate your answers. You must also write these answers on the sheets provided by the instructor. The total value of questions **8 to 12** is 26 points.

Questions:

- 1** Which of the following is not a type of requirements?
 - a. Data requirements
 - b. Environmental requirements
 - c. Life-cycle requirements
 - d. Functional requirements[1 point]
- 2** Which of the following is a form of low-fidelity prototyping?
 - a. Wizard of Oz
 - b. Abstraction mapping
 - c. Affordance prototyping
 - d. Sub-system prototyping[1 point]
- 3** Product evaluation is useful because:
 - a. The time to market is significantly reduced
 - b. Problems are fixed before the product is shipped
 - c. The developers can concentrate on real problems
 - d. All of the above[1 point]
- 4** Which of the following is not an evaluation technique?
 - a. Asking users their opinions
 - b. Testing users' performance
 - c. Modeling users' task performance
 - d. Predicting users' interactions[1 point]

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- 5** Which of the following technique is not used in “quick and dirty” evaluation:
- Asking users
 - Asking experts
 - User testing
 - Observing users
- [1 point]
- 6** Which of the following is not a good guideline for physical design?
- Allow reversal of actions
 - Increase short-term memory load
 - Offer informative feedback
 - Enable expert users to use shortcuts
- [1 point]
- 7** Hierarchical task analysis (HTA) is about:
- Evaluating the time needed by a user to complete a task
 - Breaking a task into subtasks and grouping subtasks in plans
 - Finding errors in the way a user performs a task
 - None of the above
- [1 point]
- 8** Indicate three *data gathering techniques* used during establishing requirements. Describe each of them in terms of what are they good for, their advantages, and their disadvantages.
- [5 points]
- 9** Explain what is meant by *low fidelity prototyping* and what is meant by *high-fidelity prototyping*. Describe *three types of low-fidelity prototyping* (one of the four types presented in the book is *storyboarding*).
- [6 points]
- 10** Write four recommendations for interface design. Consider menu design, icon design, and screen design. An example of such recommendation is “in pull-down menus the most commonly used functions should be at the top”.
- [4 points]
- 11** Describe one of the following evaluation paradigms: (a) *usability testing* or (b) *field studies*.
- [4 points]
- 12** Consider the project that you develop in this course (CS791m HCI) and use parts of the DECIDE framework to plan an evaluation of your project in terms of: **D**etermine the *goals* of the evaluation, **E**xplore specific *questions* to be answered, **C**hoose the *evaluation paradigm* and *techniques* to answer the questions, and **I**dentify *practical issues* of evaluation. Provide details for each of these parts and explain your choices.
- [7 points]