



Uva Wellassa University, Sri Lanka
Faculty of Science & Technology
1st Semester Examination February/March 2012
IIT 301-2/IIT 311-2 Human Computer Interaction



Time Allowed: Two(02) hours

Answer All Five (05) questions
Each question carries equal marks

Q1.

- a. Define "Human Computer Interaction" in your own words.
- b. Briefly explain the concerns of "Human Computer Interaction".
- c. List and categorize thirteen (13) design principles with a short description about each principle.

(20 marks)

Q2. Donald Norman, a well known cognitive scientist, introduced an Interaction Cycle with seven stages of actions.

- a. Explain the states of the interaction cycle found in the Norman's Model.
- b. List Norman's seven stages under each category.
- c. Consider "*Microsoft Word*" application and suppose you want to print a formatted word document using the print command available in it. Identify and list all the actions involved in the printing process. Fit the Norman's Model with the user interaction of the printing process. Explain the gulf of the interaction found in the printing process, if any.

(20 marks)

Q3. Interaction is necessary for communication between the user and the computer. There are distinct styles of interaction available for interface designing.

- a. List five (5) common interaction styles.
- b. Briefly describe three (3) of them.
- c. "Programming language users (Programmers) become more comfortable with the usage of Integrated Development Environments (IDE) with Graphical User Interfaces (GUI) than Command Line Environment". Critically discuss the statement considering advantages and disadvantages of interaction styles.

(20 marks)

Q4. New computing technologies arrive, creating a new perception of the Human - Computer relationship. We can trace some of these shifts in the history of interactive technologies.

- a. What is "Paradigm" related to Human-Computer Interaction.
- b. Briefly explain the importance and usage of interactive paradigms.
- c. What do you mean by "Paradigm Shift" and explain the evolution of interaction using examples.

(20 marks)

Q5. "Improvement of Human Interaction Interfaces has become more concern than the improvement of relevant technologies in modern industries."

Logically evaluate the above statement using fair examples. Your conclusion must be precise and concrete.

(20 marks)