

- N.B.** a) Questions No. 1 is compulsory.  
b) Attempt any four questions out of remaining six questions.
1. a) What are the characteristics of good user interface design? [5]  
b) Give guidelines for designing effective error messages. [5]  
c) Explain different types of windows. [5]  
d) Compare different menu structures. [5]
2. a) Explain in detail about the following techniques determining requirements.  
Categorize them as direct or indirect method.  
i) Traditional focus group      ii) Competitor Analysis  
iii) Card Sorting                  iv) System Testing. [10]  
b) What are the possible uses of colors and problems associated with it? Give the  
Guidelines for choosing background and foreground color for web page. [10]
3. a) Explain the general principles of User Interface Design. [10]  
b) Explain important human characteristics that need to be considered in UI design. [10]
4. a) Compare the GUI and Web page design. [10]  
b) Design the user interface for online picnic planner. It should allow user to select  
the picnic spot - depending on distance, type(hill, sea,..), number of people, transport,  
food ..etc. Assume suitable data and draw interface. [10]
5. a) Explain with example the qualities of visually pleasing composition [10]  
b) Describe the characteristics and capabilities of two direct and two indirect device  
Based controls. Give the guidelines for selecting proper device based control. [10]
6. a) Explain different techniques for grouping and ordering of data [10]  
b) Describe various selection and presentation controls. [10]
7. Write short note on any two of the following : [20]  
i) Interface Building Tools  
ii) Types of Statistical Graphs  
iii) Designing for visually impaired  
iv) User Interface Design Process.