

III B.Tech II Semester Regular Examinations, Apr/May 2008
HUMAN COMPUTER INTERACTION
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Discuss the history of screen design
(b) Compare a 1970's screen, a 1980's screen, and a 1990's and beyond screen [8+8]
2. (a) State and explain various principles in designing the xerox STAR
(b) Discuss about the terms intranet, internet, and extranet [8+8]
3. Discuss about users tasks and needs which are also important in user interface design [16]
4. Discuss briefly about intranet and extranet design guidelines. [8+8]
5. (a) Distinguish between operable controls and presentation controls giving examples.
(b) What is list box? Describe its features. What is its purpose? [8+8]
6. Give a detailed note about the following factors which influence the selection of icons.
 - (a) Familiarity
 - (b) Clarity
 - (c) Simplicity
 - (d) Consistency
 - (e) Discriminability
 - (f) Context
 - (g) Expectancy
 - (h) Directness [16]
7. Explain the role of software engineering tools in building the user interface. [16]
8. (a) Explain about the working of liquid crystal display LCD devices.
(b) Give a brief note about function keys on a keyboard. [8+8]

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1. (a) Discuss the impact of inefficient screen design on processing time with an example
(b) Discuss the chronological history of the internet [8+8]
2. (a) Compare the print page design and web page design
(b) What is meant by extranet? How it is different from internet? [10+6]
3. (a) State and explain various kinds of knowledge and experiences which should be identified for effective interface design
(b) Discuss how the user's psychological characteristics are important in user interface design [10+6]
4. Discuss the guidelines which address the screen components such as information display on the screen, headings and headlines, instructional information, screen's title. [16]
5. What are the components of a web navigation system? Explain in detail. [16]
6. What is message? Classify the message. Give a detailed note about the messages. [16]
7. Explain the suitability of C++, developing the software engineering tools to build user-interface. [16]
8. (a) What are various type of mouses. Distinguish their operations.
(b) Compare mouse and joystick. [8+8]

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3. What is meant by basic business functions? Discuss in detail the process of determining basic business functions [16]
4. Discuss the following in respect of designing a web site.
(a) Browsing
(b) Search facilities. [8+8]
5. Distinguish between the tiled windows, overlapping windows and cascading windows and explain how a particular style can be picked. [16]
6. (a) What are the uses of video? What guidelines are to be followed with video?
(b) Give a brief note about icon animation and audition. [8+8]
7. Describe the following specification methods.
(a) Grammers
(b) Transition diagrams. [8+8]
8. Give brief note about the following:
(a) Lift-off strategy
(b) Touch-screen
(c) Recognition of handwritten script characters
(d) Mouse [4+4+4+4]

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2. (a) Compare the print page design and web page design
(b) What is meant by extranet? How it is different from internet? [10+6]
3. Discuss the important human characteristics which have influence on interface and screen design [16]
4. What are display/read-only screens. Give a brief account of the guidelines to organise such screens. [16]
5. (a) What are the advantages and disadvantages of key-board?
(b) Identify the characteristics and capabilities of the following screen-based controls.
 - i. Selection controls
 - ii. Buttons [6+10]
6. What is an icon? What are the kinds of icons? Explain about each kind. [16]
7. (a) What is the role of user interference architects in building software tools?
(b) Give the BNF notation for a telephone book entry. [8+8]
8. Describe in detail about various kinds of keyboard layouts. [16]
