

Code No: M1224/R07

Set No. 1

**IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
HUMAN COMPUTER INTERACTION
(Information Technology)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

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. Compare and contrast the graphical user interface and the web user interface [16]
3. Discuss the important human characteristics which have influence on interface and screen design [16]
4. (a) State the screen design goals.
(b) Discuss how a poor screen design can distract the user and what a user expects in good screen design. [4+12]
5. What are the guidelines for selecting the proper device-based control? Explain in detail. [16]
6. Explain in detail about the factors considered in choosing colors. [16]
7. Illustrate the following specification methods with suitable examples.
(a) State charts
(b) Grammers [8+8]
8. (a) What are various type of mouses. Distinguish their operations.
(b) Compare mouse and joystick. [8+8]

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Set No. 2

**IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
HUMAN COMPUTER INTERACTION
(Information Technology)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

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 application oriented approach and object oriented approach in designing GUI. [8]
(b) Discuss the following principles of user interface design
 i. Transparency
 ii. Simplicity
 iii. Responsiveness
 iv. Recovery [4 × 2 = 8]
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. (a) Explain how menu choices can be selected
(b) What are unavailable menu choices, toggled menu items and mark toggles. [8+8]
6. (a) Give a brief note about icon animation and audition.
(b) Explain what are the issues to be considered in combining mediums? [8+8]
7. Give a brief note about the features of user - interface building tools. [16]
8. Explain the functioning of the following interactive devices
(a) Track ball
(b) Graphics tablet
(c) Touch-pad
(d) Joystick [4+4+4+4]

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Set No. 3

**IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
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) 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 about users tasks and needs which are also important in user interface design [16]
4. List various statistical graphic forms and explain surface charts, bar graphs and histograms with suitable examples. [16]
5. Identify the characteristics and capabilities of the following device-based controls.
(a) Joystick
(b) Track ball
(c) Light pen [16]
6. (a) What are the issues to be considered in choosing proper words.
(b) What are common message types, explain briefly. [8+8]
7. Explain the role of software engineering tools in building the user interface. [16]
8. (a) Distinguish between QWERTY and ABCDE style.
(b) What are the function keys? What are their advantages? [8+8]

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Set No. 4

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(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. Discuss the following characteristics in respect of web pages
 - (a) Page size
 - (b) Page rendering
 - (c) Page layout
 - (d) Page resolution
 - (e) User focus
 - (f) Page navigation
 - (g) Sense of place
 - (h) Page independence. [8 × 2 = 16]
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) What are factors upon which selection of the proper input device depends?
(b) What are the typical characteristics of proper screen-based controls? [8+8]
6. What are the issues to be considered in designing title bar and message box. [16]
7. Give a brief note about different widget supports and interface features supported in user-interface building tools. [16]
8. Explain briefly about the features of following key board layouts:
 - (a) QWERTY layout
 - (b) DVORAK layout [8+8]
