

Code No: **R42052**

R10

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2015 HUMAN COMPUTER INTERACTION

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours Max. Marks: 75 **Answer any FIVE Questions** All Questions carry equal marks Discuss the brief history of screen design. [8] What is meant by good user interface? Discuss its importance. b) [7] 2 a) Write in brief the concept of direct manipulation. [7] b) Discuss about the Web user–interface popularity. [8] Discuss about interaction of people with computers. [8] Write in brief about the human interaction speeds. b) [7] Briefly describe the information retrieval on web 4 a) [7] b) What are the design goals in the screen design? Explain. [8] Explain about window characteristics. a) [7] How to select the proper device-based controls? Explain. [8] b) Describe choosing colors for statistical graphical screens. [8] How the content and text is arranged for web pages? Explain. b) [7] Explain in detail the main criteria for selecting the right tool. 7 a) [8] Write short notes on CASE environments. b) [7] Explain about display technology and scanners. [8] 8 a) Write short notes on continuous speech recognition [7]

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Time: 3 hours Max. Marks: 75 **Answer any FIVE Questions** All Questions carry equal marks **** 1 a) Explain the importance of good design. [8] Why do we produce systems that are inefficient? [7] 2 a) Discuss about graphical systems. [8] b) Describe briefly the principles of user interface. [7] 3 a) How to determine the basic business functions? Explain. [7] b) Explain in detail the human action cycle. [8] Explain various types of statistical graphics. [8] b) Discuss about common information ordering screen. [7] 5 a) Write short notes on tool bars. [7] b) Discuss the goals of website navigation. [8] 6 a) What is an Icon? Explain different icons in detail. [8] b) Discuss about components of Multimedia. [7] Discuss briefly about specification methods. 7 [7] Write the software architecture of interface building tools. [8] Give a brief note about the following 8 a) i) Keyboard ii) Function keys [8] b) Discuss briefly about direct control pointing [7]



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Set No. 3

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Time: 3 hours Max. Marks: 75 **Answer any FIVE Questions** All Questions carry equal marks **** Explain the benefits of good design. [8] Discuss the impact of inefficient screen design. [7] 2 a) Write in brief the concept of direct manipulation. [7] b) Discuss in detail various advantages and disadvantages of graphical systems. [8] 3 a) How the human interact with computer? Explain. [8] b) Discuss about users tasks and needs which are important in user interface Design [7] 4 a) Explain about screen navigation and flow. [8] b) How to organize the screen elements? Explain. [7] How to select the screen-based controls? Explain. 5 a) [8] b) Explain about the components of a Window. [7] What are the issues to be considered in designing title bar and message box. 6 a) [7] b) Explain the following with respect to Icons: i) Types ii) Characteristics iii) Usability iv) Choosing [8] 7 a) How to manage the issues in interface building tools? Explain. [8] Discuss briefly about specification methods. [7] 8 a) Explain the Indirect pointing devices and drivers. [8] b) Discuss briefly about digital video. [7]



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Set No. 4

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2015 HUMAN COMPUTER INTERACTION

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours Max. Marks: 75 **Answer any FIVE Questions** All Questions carry equal marks Explain the importance of user interface. [8] Discuss the brief history of screen design. [7] 2 a) What are the characteristics that differ in web interface and GUI? Explain. [8] b) Discuss about the popularity of graphics. [7] 3 a) Explain any five human characteristics in design. [8] What are design standards? Explain. b) [7] Discuss the technological considerations in interface design. 4 a) [8] b) Write in detail about visually pleasing composition. [7] 5 a) Explain various window operations. [5] b) Define the following with respect to window i) Tool bar ii) Split box iii) Command area iv) Work area v) Menu bar [10] 6 a) Discuss about various types of messages [7] b) How to choose the colors for textual graphic screens? Explain. [8] Give a brief note about the features of user – interface building tools. 7 [8] Write short notes on CASE environments. [7] 8 a) Explain the speech and auditory interfaces. [8] b) Write in brief the advantages and disadvantages of touch screen. [7]

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