R10

Code No: **R42052**

Set No. 1

IV B.Tech II Semester Supplementary Examinations, April/May - 2017 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 **** 1 a) Define user interface and explain its importance. [8] b) Explain the importance of good design. [7] 2 a) Define and explain about graphical user interface. [8] b) What is meant by direct manipulation in Graphical system? What are the [7] characteristics? 3 a) Explain in detail human interaction with computers. [8] b) Discuss briefly about human interaction speeds? [7] 4 Give a brief note about the following headings types used in screen design. a) Control section heading b) Control sub- section/ row heading c) Field group heading [15] d) Web page heading. 5 a) Discuss about GUI navigation elements? [8] b) Discuss about web navigation elements? [7] 6 a) Define Multimedia. Explain its components. [8] b) Explain the terms RGB, JPEG and GIF. [7] 7 a) Write short notes on CASE environments. [8] b) Discuss briefly about specification methods. [7] 8 a) Discuss about digital photography. [8] b) Explain about continuous speech recognition? [7]

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Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016 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 **** 1 a) Define human computer interaction. Explain goals of human computer interaction. [8] b) What are the different factors the human computer interaction designers must consider? Explain. [7] 2 a) Explain the graphical system advantages and disadvantages. [7] b) Explain the characteristics of graphical user interface. [8] 3 a) Explain why people have trouble with computers in brief. [7] b) Explain briefly the important human characteristics in design. [8] 4 a) Discuss the technical considerations in interface design. [7] b) List and explain the factors that distract the screen user. [8] 5 a) Discuss different window presentation styles. [7] b) List the screen based controls and explain how to choose proper screen based controls with example. [8] 6 a) Differentiate system messages and instructional messages. Explain with example. [8] b) List and explain the factors that influence icon usability in detail. [7] 7 a) Explain transition diagram and state charts with suitable example. [7] b) Explain the windowing system layer, the GUI tool kit layer, the application frame work and specified language layer in brief. [8] 8 a) List and explain different direct control pointing devices in detail. [7] b) Why speech recognition still does not match the fantasy of science fiction? Explain. [8] **R10**

Code No: **R42052**

Set No. 2

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016 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 **** [8] 1 a) Explain the importance of user interface. Explain the history of screen design with suitable example. [7] b) 2 a) Discuss the popularity of graphics in detail. [7] b) Compare and contrast graphical user inter face and web page design. [8] 3 a) Discuss the typical psychological and physical responses to poor design. [7] b) Discuss guidelines for designing a conceptual model in detail. [8] 4 a) Explain the ordering of screen data and content in detail. [7] b) What is statistical graph? Explain the types of statistical graphs in brief. [8] 5 a) Explain the difference between primary window and secondary window with [8] suitable examples. b) Explain the selection of proper device based controls. [7] 6 a) List the characteristics of icons and explain the factors that influence icon [8] usability. b) Explain the good icon design guide lines in detail. [7] 7 a) Compare and contrast transition diagram with state chart. [7] b) What is the criterion for finding the right interface building tools? Explain. [8] 8 a) Compare and contrast direct control pointing devices and indirect control pointing devices. [8] b) Discuss different interactive novel devices in detail. [7]

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Set No. 3

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016 HUMAN COMPUTER INTERACTION

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours Max. Max. Max. Max. Max. Max. Max. Max.				
		Answer any FIVE Questions All Questions carry equal marks *****		
1	a)	Explain the benefits of good design.	[8]	
	b)	Compare the present screen the design with 1970's screen design with suitable example.	[7]	
2	a)	Compare and contrast direct manipulation and indirect manipulation system.	[7]	
	b)	Discuss the popularity of web user interface.	[8]	
3	a)	List the ten most common usability problems in graphical systems and explain.	[7]	
	b)	Explain human interaction speeds in brief.	[8]	
4	a) b)	What are the techniques used to focus a person's attention in screen navigation and flow? Explain. How to present the information simply and meaningfully in screen design?	[7] [8]	
5	a) b)	Explain different navigation scemes of windows, structures of menu's with example. Explain property sheets and property inspectors with suitable examples.	[7] [8]	
6	a) b)	Explain how to use the proper words for creating acceptable messages and texts. The proper use of colour in screen design suggests something to avoid, what are they explain.	[7] [8]	
7	a)	Discuss different specification methods with examples.	[7]	
	b)	Discuss the user interface mockup tools in detail.	[8]	
8	a) b)	Explain different keyboard layouts for big and small devices. Explain the advantages and disadvantages of voice information system.	[7] [8]	

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016 HUMAN COMPUTER INTERACTION

(Common to Computer Science & Engineering and Information Technology)

\mathbf{T}	ime:	3 hours Max. Marl	1ax. Marks: 75	
		Answer any FIVE Questions		
		All Questions carry equal marks *****		
1	a)	Explain the importance of good design.	[8]	
	b)	Why is human computer interaction is important explain.	[7]	
2	a)	Explain the popularity web user interface.	[7]	
	b)	Discuss the principles of user interface design.	[8]	
3	a)	Explain how perception, memory, sensory storage influence on interface and screen design.	[8]	
	b)	Explain design standards or style guide documents in detail.	[7]	
4	a)	What are the qualities that are require to provide visually pleasing composition of screen design?	[8]	
	b)	Explain how to group screen elements meaningfully explain with example.	[7]	
5	a)	List and explain components of windows.	[7]	
	b)	Explain the selection of proper device based controls.	[8]	
6	a)	How to write message box text and explain message box controls.	[7]	
	b)	Explain the factors required for choosing colours for web pages.	[8]	
7	a)	Explain transition diagram and state chart with suitable example.	[7]	
	b)	Explain the features interface building tools.	[8]	
8	a)	Explain the six types of interaction tasks that are applicable by pointing		
		devices.	[8]	
	b)	List and discuss the different display technologies.	[7]	

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Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/Aug - 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 1 a) Define and Discuss the importance of User Interface design. [8] b) Give the brief history of screen design. [7] 2 Define Graphical User Interface. Discuss the importance of GUI also write the characteristics of the Graphical User Interface. [15] 3 a) Briefly discuss the main human characteristics that are to be considered in designing a good interface. [8] b) Discuss how the physical characteristics of people affect their interaction with systems. [7] 4 a) With a neat sketch, Explain various visually pleasing compositions of screen [10] design. b) Write about the five important interface design goals. [5] 5 a) With neat diagrams, Explain various structures of menus. [7] b) Explain the various types of windows with suitable examples. [8] 6 a) What is a message? Explain the types of system messages with neat diagrams. [8] b) What are the possible problems in choosing colors for screen design [7] 7 a) Explain in brief, various specification methods for building an interface. [8] b) Discuss the features of interface-building tools. [7] 8 What is the function of an input device? List various input devices. Explain in detail about the function of Key board and its function keys. [15]

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Code No: **R42052**

Set No. 2

IV B.Tech II Semester Supplementary Examinations, July/Aug - 2015 **HUMAN COMPUTER INTERACTION**

(Common to Computer Science & Engineering and Information Technology)

'ime	Max. Marks: 75				
	Answer any FIVE Questions				
All Questions carry equal marks					
a)	Discuss the impacts of inefficient screen design on processing times.	[8]			
b)	Write the importance of well-designed interface.	[7]			
	direct manipulation is preferable in all cases of screen design? Justify	[8]			
0)	interface	[7]			
	Explain in detail various human aspects that are important and must be considered in designing a good interface.	[15]			
	affects the performance.	[8]			
D)	diagrams, List various statistical graphics.	[7]			
a)	1 1				
b)	menus. Write about various window presentation styles.	[8] [7]			
	Discuss in detail various issues involved in designing an icon.	[15]			
a)	Write about the Borland JBuilder interface building tool.	[8]			
b)	Discuss the benefits of using interface building tools.	[7]			
	Write short notes				
	,	[5]			
	- · ·	[5] [5]			
	a)b)a)b)a)b)	Answer any FIVE Questions All Questions carry equal marks ****** a) Discuss the impacts of inefficient screen design on processing times. b) Write the importance of well-designed interface. a) Write the characteristics of Direct manipulation systems. Is the concept of direct manipulation is preferable in all cases of screen design? Justify b) Write any five important principles to be considered in designing a user interface Explain in detail various human aspects that are important and must be considered in designing a good interface. a) With a neat example, Explain how the ordering of screen data and content affects the performance. b) Explain the importance of statistical graphics in screen design. With neat diagrams, List various statistical graphics. a) What is a menu? Why menus are important and also Explain the functions of menus. b) Write about various window presentation styles. Discuss in detail various issues involved in designing an icon. a) Write about the Borland JBuilder interface building tool. b) Discuss the benefits of using interface building tools.			

Set No. 3

IV B.Tech II Semester Supplementary Examinations, July/Aug - 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 1 a) Define Human Computer Interaction. Discuss the importance of User Interface design. [8] b) Discuss the chronological history of Graphical User Interfaces [7] 2 What are the advantages and disadvantages of Graphical Systems? Explain [15] 3 a) Why the user's knowledge and experience are to be considered in designing a good interface? Explain. [8] b) List various direct and indirect methods for determining the requirements [7] 4 Discuss various technological considerations involved in designing an interface. [15] 5 a) What are the various components of a window? Explain. [8] b) Discuss the technical issues and problems in web site navigation. [7] 6 a) Write the guidelines for writing the message box text. [5] b) What is an Icon? What are the types of Icons? What are the characteristics of Icons and list the factors that influence icon's usability. [10] 7 Explain in detail about Backus-Naur form and transition diagram with suitable example [15] 8 a) Explain any four kinds of display technologies. [8] b) What is meant by digitization? Explain various issues in continuous speech generation and recognition. [7]

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Set No. 4

IV B.Tech II Semester Supplementary Examinations, July/Aug - 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 **** 1 a) Write are the benefits of Well-designed interfaces. [8] b) Give the brief history of screen design. [7] 2 Discuss the similarities and differences between Graphical User Interface and Web Interface design. [15] 3 a) Explain in detail the various human characteristics that are to be considered in designing a good user interface. [10] b) Discuss various indirect methods of requirements determination. [5] 4 a) Explain the importance of grouping screen elements with a suitable example. [8] b) Write the principles and various types of grouping screen elements. [7] 5 Explain in brief about Device-based controls and Screen-based controls? Give the guidelines for selecting the proper controls in screen design. [15] 6 a) Give the guidelines for selecting images in designing icons. [8] b) Write the various factors that must be considered in choosing colors for information. [7] 7 a) Give the main criteria for selecting the right tool for building an interface. [8] b) Write about Microsoft Visual Studio. [7] 8 Write short notes on i). Indirect pointing devices [5] Function keys of Keyboard ii). [5] Mobile device displays iii). [5]

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IV B.Tech II Semester Supplementary Examinations, July - 2016 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 **** 1 a) What are the keying procedures are used in screen design? [8] b) What is the importance of paper printouts in the screen design? [7] 2 a) Define graphical user interface. [8] b) What is meant by direct manipulation in Graphical system? What are the characteristics? [7] 3 a) How the human Computer Interaction and user Interface design are related. Explain about each. [8] b) Discuss about cognitive processing. [7] 4 Compare among 1970s, 1980 and 1990s screen design. [15] 5 Explain the following screen based controls, and also explain their respective advantages and disadvantages: a) Drop-down/pop-up list boxes [8] b) Drop-down/pop-up combo boxes [7] 6 a) What are uses of color? [5] b) What are the possible problems with color? [5] c) How to choose the colors for textual graphic screens? [5] 7 a) Write short notes on software engineering tools? [8] b) How to construct more robust systems using software engineering tools? [7] 8 a) How to recognize speech? [5] b) How many variations are there in speech technology? [5] c) Discuss briefly about discrete word recognition. [5]

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