Code No: **R42052**   **R10**   Set No. 1

IV B.Tech II Semester Regular Examinations, April/May - 2014
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 HCI. What is the importance of good design?   [8]

   b) Write a brief history of screen design.   [7]

2 a) Discuss about the characteristics of a Web interface.   [8]

   b) What re the characteristics of the GUI? Explain.   [7]

3 a) Explain about business definition and requirement analysis.   [8]

   b) What are the human considerations in design? Explain.   [7]

4 a) Discuss about display/read-only screens.   [8]

   b) What are screen elements? Explain.   [7]

5 a) Discuss about the phrasing of the menu.   [5]

   b) What are Window operations? Explain.   [5]

   c) Explain about the selection of proper device-based controls.   [5]

6 a) Briefly discuss about creation of meaningful graphics, icons and images.   [8]

   b) What is a color? What are color uses? What are the possible problems with
       colors?   [7]

7   Discuss in detail about Backus-Naur Form (BNF) with examples.   [15]

8   Explain the following:

   a) Direct-control pointing devices   [5]

   b) Discrete word recognition   [5]

   c) Function keys   [5]

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Set No. 2

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Time : 3 hours   **Max. Marks: 75**

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*****

1 a) Write the chronological history of the Internet.   [8]

   b) What are the benefits of good design? Explain.   [7]

2 a) Write about the merits of graphical systems.   [8]

   b) Briefly describe the differences between printed page and Web page design.   [7]

3 a) Discuss about interaction of people with computers.   [8]

   b) Explain in detail about determining basic business functions.   [7]

4 a) What are various types of statistical graphs? Explain.   [8]

   b) Describe reading, browsing and searching on the Web.   [7]

5 a) What are the characteristics of device-based controls?   [5]

   b) What are Window characteristics?   [5]

   c) How to format on Menus? Explain.   [5]

6 a) Discuss about components of Multimedia.   [8]

   b) Explain in detail about choosing colors.   [7]

7   Explain in detail about interface-building tools.   [15]

8   Explain the following:

   a) Indirect pointing devices   [5]

   b) Speech recognition   [5]

   c) Display technology   [5]

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R10

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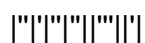
Time : 3 hours   **Max. Marks: 75**

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

1	a)	Write the chronological history of GUI.	[8]
	b)	Discuss about the blossoming of the WWW.	[7]
2	a)	What are the disadvantages of graphical systems? Explain.	[8]
	b)	Describe about the popularity of web-user interface.	[7]
3	a)	What are design standards? Explain.	[5]
	b)	Describe the User's knowledge and experience.	[5]
	c)	Write any five human characteristics in design and explain.	[5]
4	a)	Explain about screen navigation and flow.	[8]
	b)	What are the technological considerations of interface design? Explain.	[7]
5	a)	What are structures of menus? Explain.	[5]
	b)	Describe various types of Windows.	[5]
	c)	How to select the proper device-based controls?	[5]
6	a)	What is an Icon? Explain different icons in detail.	[5]
	b)	Explain about the text for Web pages.	[5]
	c)	Describe choosing colors for statistical graphical screens.	[5]
7		Briefly discuss about Microsoft Visual Studio.	[15]
8		Explain the following:	
	a)	Printers	[5]
	b)	Voice information systems	[5]
	c)	Fitts' Law	[5]

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R10

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*****

1 a) Give a brief introduction of the GUI.   [8]

   b) Discuss about the importance of good design.   [7]

2 a) What is the concept of direct manipulation? Explain.   [8]

   b) Distinguish between GUI and Web page design.   [7]

3 a) What are the User's tasks and needs? Explain.   [5]
   b) How people interact with computers? Explain.   [5]
   c) Describe developing conceptual models.   [5]

4   Discuss in detail about visually pleasing composition.   [15]

5 a) What are the Window operations? Explain.   [5]
   b) Explain about the components of a Window.   [10]

6 a) How to choose colors? Explain.   [7]
   b) Explain the following with respect to Icons:
       (i) Types (ii) Characteristics (iii) Usability (iv) Choosing   [8]

7   What are six main criteria for finding the right tool? Explain in detail. [15]

8   Explain the following:
   a) Comparison of pointing devices   [5]
   b) Speech and auditory interfaces   [5]
   c) Mobile device displays   [5]

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