

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : HCI (9F00504b)

Course & Branch: MCA

Year & Sem: III-MCA & I-Sem

Regulation:R09

<u>UNIT –I</u>

Introduction

1	a)	Define HCI. What is the importance of good design?	5M
	b)	Write a brief history of screen design.	5M
2	a)	Write the chronological history of the Internet.	5M
	b)	What are the benefits of good design? Explain.	5M
3	a)	Write the chronological history of GUI.	5M
	b)	Discuss about the blossoming of the WWW.	5M
4	a)	Give a brief introduction of the GUI.	5M
	b)	Discuss about the importance of good design.	5M
5	a)	Define and Discuss the importance of User Interface design	5M
	b)	Give the brief history of screen design.	5M
6	a)	Discuss the impacts of inefficient screen design on processing times.	5M
	b)	Write the importance of well-designed interface.	5M
7	a) 1 b)	Define Human Computer Interaction. Discuss the importance of User Interface design Discuss the chronological history of Graphical User Interfaces	5M 5M
8	0) a)	Write are the benefits of Well-designed interfaces.	5M
0	a) b)	Give the brief history of screen design.	5M
	,		
9) F	Explain about history of Screen Design	10M
10)) E	xplain the different screens in various decades	10M



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<u>UNIT –II</u>

The Graphical user interface

1 a)	What is the concept of direct manipulation? Explain.	5M
b)	Distinguish between GUI and Web page design.	5M
2 a)	What are the disadvantages of graphical systems? Explain.	5M
b)	Describe about the popularity of web-user interface.	5M
3 a)	Write about the merits of graphical systems.	5M
b)	Briefly describe the differences between printed page and Web page design.	5M
4 a)	Discuss about the characteristics of a Web interface.	5M
b)	What re the characteristics of the GUI? Explain.	5M
5	Discuss the similarities and differences between Graphical User Interface and	10M
	Web Interface design.	
6	What are the advantages and disadvantages of Graphical Systems? Explain	10M
7 a)	Write the characteristics of Direct manipulation systems. Is the concept of	
	direct manipulation is preferable in all cases of screen design? Justify	5M
b)	Write any five important principles to be considered in designing a user	
	Interface	5M
8)	Define Graphical User Interface. Discuss the importance of GUI also write the	
	characteristics of the Graphical User Interface.	10M
0)		1015
9)	Explain the general principle of User Interface design?	10M
10)	Explain the general principle of Xerox STAR?	10M

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<u>UNIT –III</u>

Design Process

1	a)	Explain about business definition and requirement analysis.	5M
	b)	What are the human considerations in design? Explain.	5M
2	a)	Discuss about interaction of people with computers.	5M
	b)	Explain in detail about determining basic business functions.	5M
3	a)	What are design standards? Explain.	5M
	b)	Describe the User's knowledge and experience.	5M
	c)	Write any five human characteristics in design and explain.	5M
4	a)	What are the User's tasks and needs? Explain.	5M
	b)	How people interact with computers? Explain.	5M
	c)	Describe developing conceptual models.	5M
5	a)	Briefly discuss the main human characteristics that are to be considered in	
		designing a good interface.	5M
	b)	Discuss how the physical characteristics of people affect their interaction with	
		systems.	5M
6)	Explain in detail various human aspects that are important and must be	
		considered in designing a good interface.	10M
7	a)	Why the user's knowledge and experience are to be considered in designing a	
		good interface? Explain.	5M
	b)	List various direct and indirect methods for determining the requirements	5M
8	a)	Explain in detail the various human characteristics that are to be considered in	
		designing a good user interface.	5M
	b)	Discuss various indirect methods of requirements determination.	5M
9		Explain the guidelines of designing of conceptual model?	10M
10))	Define object and metaphor and how to develop metaphors?	10M



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<u>UNIT –IV</u>

Screen Designing

1		Discuss in detail about visually pleasing composition.	10M
2	a)	Explain about screen navigation and flow.	5M
	b)	What are the technological considerations of interface design? Explain.	5M
3	a)	What are various types of statistical graphs? Explain.	5M
	b)	Describe reading, browsing and searching on the Web.	5M
4	a) b)	Discuss about display/read-only screens. What are screen elements? Explain.	5M 5M
5	a)	Explain the importance of grouping screen elements with a suitable example.	5M
6	b)	Write the principles and various types of grouping screen elements. Discuss various technological considerations involved in designing an	5M
		interface.	10M
7	a)	With a neat example, Explain how the ordering of screen data and content affects the performance.	5M
	b)	Explain the importance of statistical graphics in screen design. With neat diagrams, List various statistical graphics.	5M
8	a)	With a neat sketch, Explain various visually pleasing compositions of screen design.	5M
	b)	Write about the five important interface design goals.	5M
9)	Ho	ow to presenting the information simply and meaningfully?	10M
10) What is typography? Explain different fonts and families?			10M

HUMAN COMPUTER INTERACTION



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	<u>UNIT –V</u>		
	<u>Windows</u>		
b)What	euss about the phrasing of the menu. are Window operations? Explain. an about the selection of proper device-based controls		3M 3M 4M
2 a)Wha b)Wha	t are the characteristics of device-based controls? t are Window characteristics? t to format on Menus? Explain.		3M 3M 3M
3 a)What are structures of menus? Explain.b)Describe various types of Windows.c)How to select the proper device-based controls?			4M 3M 3M
,	t are the Window operations? Explain. ain about the components of a Window.		5M 5M
5 _{a)} w	Vith neat diagrams, Explain various structures of menu	18.	5M
6 a) W	xplain the various types of windows with suitable exa What is a menu? Why menus are important and also Ex- menus.	1	5M 5M
b) V	Vrite about various window presentation styles. What are the various components of a window? Explain	1.	5M 5M
8 E	Discuss the technical issues and problems in web site na xplain in brief about Device-based controls and Screen the guidelines for selecting the proper controls in screen	n-based controls? Give	5M 10M
	9.) Give the advantages and dis advantages of keyboard and mouse?		
10.) Exp	10.) Explain the usage and guide lines of input devices? 10N		



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	<u>UNIT –VI</u>		
	<u>Components</u>		
	low to choose colors? Explain. xplain the following with respect to Icons:	4M	
,	ypes (ii) Characteristics (iii) Usability (iv) Choosing	6M	
2 a)W	hat is an Icon? Explain different icons in detail.	4M	
b)E	xplain about the text for Web pages.	3M	
c)D	escribe choosing colors for statistical graphical screens.	3M	
	viscuss about components of Multimedia.	5M 5M	
b)E	b)Explain in detail about choosing colors.		
4 a)Briefly discuss about creation of meaningful graphics, icons and images. b)What is a color? What are color uses? What are the possible problems with		5M	
colo	1 1	5M	
5 a)	Give the guidelines for selecting images in designing icons.	5M	
b)	Write the various factors that must be considered in choosing colors for		
	information.	5M	
6 a)	Write the guidelines for writing the message box text.	5M	
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.	5M	
7	Discuss in detail various issues involved in designing an icon.	10M	
8 a)	What is a message? Explain the types of system messages with neat diagrams.	5M	
b)	What are the possible problems in choosing colors for screen design	5M	
9.)	Explain the icon animation and audition?	10M	
10.)	How to choose proper colors for web designing?	10M	



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<u>UNIT –VII</u>

Software tools

1 2 3	Discss in detail about Backus-Naur Form (BNF) with examples. Explain in detail about interface-building tools. Briefly discuss about Microsoft Visual Studio.	10M 10M 10M
4 a)	Explain in brief, various specification methods for building an interface.	5M
b)	Discuss the features of interface-building tools.	5M
5 a)	Write about the Borland JBuilder interface building tool.	5M
b)	Discuss the benefits of using interface building tools.	5M
6	Explain in detail about Backus-Naur form and transition diagram with suitable example.	
7 a)	Give the main criteria for selecting the right tool for building an interface.	5M
b)	Write about Microsoft Visual Studio.	5M
8.)	What are six main criteria for finding the right tool? Explain in detail.	10M
9.)	Explain in brief about Building tools ?	10M
10.)	Discuss Specification methods in software tools ?	10 M

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Year	r & Sem: III-MCA & I-Sem Regulation:	R09	
	<u>UNIT –VIII</u>		
	Interaction devices		
1	Explain the following:		
a)	Comparison of pointing devices	4M	
b)	Speech and auditory interfaces	3M	
c)	Mobile device displays	3M	
2	Explain the following: Printers	4M	
a) b)	Voice information systems	4M 3M	
c)	Pointing devices	3M	
3	Explain the following:		
a)	Indirect pointing devices	3M	
b)	Speech recognition	3M	
c) 4	Display technology Explain the following:	4M	
4 a)	Direct-control pointing devices	3M	
b)	Discrete word recognition	3M	
c)	Function keys	4M	
5	Write short notes on		
c	i). Indirect pointing devices	3M	
	ii). Function keys of Keyboard	3M	
	iii). Mobile device displays	4M	
6 a)	Explain any four kinds of display technologies.	5M	
b)	What is meant by digitization? Explain various issues in continuous spe		
_	generation and recognition.	5M	
7	Write short notes	43.4	
	i). Fitt's Law.ii). Mobile Device Displays .	4M 3M	
	iii). Direct pointing devices.	3M 3M	
8.)	What is the function of an input device? List various input devices. Exp		
)	detail about the function of Key board and its function keys.	10M	
9.)	Explain about Image and Video displays?	10M	
10.)	Explain in brief about Digitization and generation?	10M	

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