

Code No: **RT42053A**

R13

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 HUMAN COMPUTER INTERACTION

(Common to Computer Science and Engineering & Information Technology)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

1.	a)	Mention goals of User Interface usability.	[3]
	b)	What is the importance of Menus in User Interface?	[4]
	c)	Why Speech recognition is difficult to implement in real time environments?	[4]
	d)	What are the three strategies that can be adopted to reduce user frustration?	[4]
	e)	Explain the importance of online documentation.	[4]
	f)	Write about Multi-dimensional data type.	[3]
		$\underline{\mathbf{PART-B}}(3x16 = 48 Marks)$	
2.	a)	What is Usability in User Interface design? Why Usability is so important?	
		Explain the principles of User Interface design.	[8]
	b)	Explain in detail various legal issues that are to be considered seriously while	
		designing a User Interface.	[8]
3.	a)	What are the contents of Menu? Explain in detail about the organization of	
		task-related menus.	[8]
	b)	Why it is important to use alternative menu styles for small display units?	F07
		Explain.	[8]
4.	۵)	Explain in datail the goals of Language design	F Q 1
4.	a)	Explain in detail the goals of Language design.	[8]
	b)	Discuss various Motion-tracking pointing devices and their accessibility.	[8]
5.	a)	With a neat sketch, explain Response Time and User Think time.	[6]
٥.	b)	What is nonanthropomorphic design? What reasons lead to this design?	[10]
	0)	what is nonuntaropomorphic design. What reasons read to this design.	[10]
6.	a)	Discuss the advantages and disadvantages of reading from displays.	[8]
	b)	Write about the best practices for shaping a good documentation.	[8]
7.	a)	What is the function of Search? What is a Search Engine Query? List out the	
		most popular Search Engines in the world.	[6]
	b)	How is querying done in searching for textual documents?	[10]



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Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

1.	a)	Give the Metrics to measure and quantity Usability.	[3]
	b)	What are various classification of menus?	[4]
	c)	Write about various display technologies.	[4]
	d)	What are the three things that influence the Response Time?	[4]
	e)	Mention the potential disadvantages of reading from displays.	[4]
	f)	Write about Collaborative Filtering technique.	[3]
		$\underline{\mathbf{PART-B}} (3x16 = 48 Marks)$	
2.	a)	With a neat sketch, explain in detail the 4 pillars of successful user interface	
		design.	[12]
	b)	Discuss the Carol and Rosson's way of user interface design characterization.	[4]
3.	a)	Explain the importance of Menu selection and dialog boxes in User interface	
		design.	[8]
	b)	Discuss the issues and challenges involved in designing menus for small display	
		units.	[8]
4.	a)	Discuss the guidelines for using Abbreviations in Command Languages.	[8]
	b)	Discuss the challenges and issues in adopting Speech Recognition Technology.	[8]
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5.	a)	What is Response Time? Explain about various issues related to the response	503
	• .	time while designing a User Interface.	[8]
	b)	Discuss and elaborate the issues to be considered in choosing colors for web	101
		pages.	[8]
6	۵)	Differentiate between Depart and online decommentation	F01
6.	a) b)	Differentiate between Paper and online documentation. Why "Online communities for User assistance" is proving to be effective and	[8]
	U)	popular? Explain.	[8]
		populai : Explain.	[o]
7.	a)	Differentiate between Search and Query.	[4]
•	b)	Compare Natural Language Queries Versus Form-fill Queries.	[4]
	c)	What are the challenges that information visualization researchers need to face	r · 1
	<u>-,</u>	to create successful tools? Explain.	[8]

[4]



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Set No. 3

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Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

1. a) What do you mean by Universal Usability? Why is it important?

	b) c) d) e) f)	Explain the importance of audio menus for small display units. Write about Direct and Indirect input devices with suitable examples for each. Discuss various recommendations for phrasing Error Messages or Warnings. Write a brief note on Animated Demonstrations for exploratory learners. Write about Dynamic queries.	[4] [4] [4] [3]
		$\underline{\mathbf{PART-B}} (3x16 = 48 Marks)$	
2.	a)	Explain about some important measures that determine the effectiveness of the	
	b)	product in regard to Usability. Discuss the important guidelines in the Ethnographic observation process.	[8] [8]
3.	a)	What is the goal of a Menu selection? Explain various types of Multiple menu	
	b)	selection. Why direct manipulation of all screen objects and actions may not be feasible?	[8]
	0)	Give proper explanation and also explain how it can be solved in indirect manipulation.	[8]
4.	a)	Write short note on command organization functionality.	[8]
	b)	Explain briefly about the features of various Keyboard Layouts.	[8]
5.	a) b)	Discuss the limitations of Short term and Working memory. Write about the guidelines that must be considered in choosing colors for	[4]
	0)	information.	[6]
	c)	List few common mistakes of web-based presentation of information	[6]
6.	a) b)	Discuss the advantages and disadvantages of reading from displays Explain about various features that help in accessing the online documentation in	[8]
		a best way.	
7.	a) b)	What is the function of Search? Explain about Multimedia document searches. Discuss the basic tasks that need to be supported for information visualization.	[8] [8]
	0)	Discuss the suste tasks that need to be supported for information visualization.	[0]



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Set No. 4

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(Common to Computer Science and Engineering & Information Technology) Time: 3 hours Max. Marks: 70

> Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B ****

1.	a)	Discuss various reasons that increased Usability motivations.	[4]
	b)	Write the importance of providing techniques to accelerate the fast movement	
		through menus.	[3]
	c)	Write about Novel pointing devices.	[4]
	d)	Discuss the benefits of using colors in User Interface Design.	[4]
	e)	What are the best practices for good documentation?	[4]
	f)	Write about Multimedia document and Digital Libraries.	[3]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	What do you mean by User Interface design Usability? Why it is so important?	
		Explain in detail about the Universal Usability.	[8]
	b)	Explain Social impact statement for early design review.	[8]
3.	a)	Differentiate between Direct and Indirect manipulation of Screen objects with	
		suitable examples.	[8]
	b)	Explain in detail the list of guidelines to be followed for designing dialog boxes.	[8]
4.	a)	Specificity Versus Generality.	[4]
	b)	What is a Computer Keyboard? Explain about various Keyboards and Keypads	
	ŕ	available for Small devices.	[6]
	c)	Explain in detail about Discrete Word Recognition.	[6]
5.	a)	What are the primary factors that influence users' expectations and attitudes	
		regarding system response time? Explain.	[8]
	b)	Discuss the merits and demerits of using colors in User Interface design.	[8]
6.	a)	Discuss the advantages of animated demonstrations in online tutorials.	[8]
	b)	Explain the appropriate milestones for the production of a manual.	[8]
7.	a)	Explain about the few alternatives to form-fill-in query interface.	[8]
	b)	Discuss the data type by task taxonomy to identify information visualization data	ro1
		types.	[8]