

## T.E. (Information Technology) (Sem. – II) Examination, 2010 HUMAN COMPUTER INTERFACE (2003 Course)

	what is meant by gulf of execution and gulf of eventure	
Time :	3 Hours Max. Marks: 100	
In	structions: 1) Answer Question 1 or 2, 3 or 4, and 5 or 6 from Section – I. and Question 7 or 8, 9 or 10, and 11 or 12 from Section – II.	
	2) Answers to the two sections should be written in separate books.	
	3) Neat diagrams must be drawn wherever necessary.	
	4) Figures to the right indicate full marks.	
	5) Assume suitable data, if necessary.	
	b) Describe the user interface development process, starting at the earliest star	
1. a)	Explain following terms related to the human short-term memory.	,
	Digit Span, Chunking, Regency Effect, Closure	
b)	Explain the difference between slips and mistakes with the help of suitable	
	example.  OR  OR	3
2. a)	What are some design concerns pertaining to cultural and international	
	71 Khatasi Demisira Chefrana	3
b)	Compare life critical system against commercial computer systems with	
	reference to goals of user interface design.	3



3.	a)	List and explain seven stages of action model.	8
	b)	With the help of Norman's Model of interaction explain the process of execution	
		evaluation cycle. What is meant by gulf of execution and gulf of evaluation	
	ks.	with respect to this model?	10
		instructions of price of the second of the second of the section section	
4.	a)	Explain GOMS and Keystroke level model.	8
	b)	As screens grow larger, some designers are tempted to increase the number	
		of menu items displayed at once. Give three strategies for organizing the	
		layout and justify them briefly based on user tasks and knowledge.	10
5.	a)	Explain three Pillars of Interface Design.	8
	b)	Describe the user interface development process, starting at the earliest stages	
		and continuing up to the point when the interface is complete. Name the steps	
		in this process and briefly describe what happens. Briefly discuss the importance	
		of each step, what specific things we must pay the most attention to, and how	
		information relevant to the step is gathered, analysed, or used. If steps are	
		repeated describe: why, what changes, and when you stop.	8
		No works and some design concerns pertaining to cultural and international	
6.	W	rite short note on (any two):	16
	a)	Ethnographic observation commercial computer systems with	
	b)	Scenarios and Patterns  Angles beautiful and the state of	
	c)	Affordances and Design	



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7.	a)	Explain different dialog design notations.	8
	b)	A different human/computer interface would be needed for each of the following users:	8
		i) a young child in a primary school, ii) a blind person,	
		ii) a blind person,	
		For each user describe and justify an appropriate human/machine interface for mobile handheld devices.	
		ily Give two different tasks for which a PC user could take advantage	
8.	a)	Give one good feature and one bad feature of each of these interaction styles:	8
		i) question and answer	
		ii) natural language	
		iii) direct manipulation	
		iv) virtual reality : (see the gum) no section horizont.	
	b)	What are the factors you would need to take into account when designing a screen layout for a database application?	8
9.	a)	Explain how following CSCW systems are useful for co-operative working.	8
		1) Meeting Rooms	
		2) Shared Drawing Surfaces.	
	b)	You are supposed to design an interface for your college web site. Discuss	
		important design issues that need to be considered in designing a web page.	8
		OR	



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a)	Explain an importance of hypertext over linear paper document. List important considerations for creating a good hypertext document.	t 8
b)	Enumerate any four error messages encountered by you in GUI based interactive system. What guidelines can you suggest for presenting these error messages in an effective style?	8
a)	Some of the favorite techniques of web pages these days include automatic scrolling text boxes, moving marquees, and constantly running animations (e.g. for icons). Discuss these features in terms of web design guidelines.	8
b)	요한 구성이 보고 있는 경우 시간에 가는 사람이 되었다면 보고 있다면 보고 있다면 보고 있다면 보고 있는데 보고 있다면 보고 있다면 보고 있다면 없는데 가는 사람이 되었다면 보고 있다면 보고 있다면 사람들이 없다면 보고 있다면 보고 되었다면 보고 있다면 보고 있다면 되었다면 보고 있다면 보	10
	i) State two advantages to a PC user of a speech recognition system.	
	ii) Give two different tasks for which a PC user could take advantage of speech recognition.	
	iii) Speech recognition systems sometime fail to be 100 per cent effective in practise.	
	Give three reasons why this is so.  OR	
W	rite short notes on (any three):	18
a)	Shared Editors	
b)	Multimedia document searches	
c)	Organization design to support usability	
	Comparisons of pointing devices.	
	Shared Drawing Surfaces.	
	a) b) w) a) b) c) d)	b) Enumerate any four error messages encountered by you in GUI based interactive system. What guidelines can you suggest for presenting these error messages in an effective style?  a) Some of the favorite techniques of web pages these days include automatic scrolling text boxes, moving marquees, and constantly running animations (e.g. for icons). Discuss these features in terms of web design guidelines.  b) Speech recognition systems for Personal Computers are now becoming more affordable and useable.  i) State two advantages to a PC user of a speech recognition system.  ii) Give two different tasks for which a PC user could take advantage of speech recognition.  iii) Speech recognition systems sometime fail to be 100 per cent effective in practise.  Give three reasons why this is so.  OR  Write short notes on (any three):  a) Shared Editors  b) Multimedia document searches  c) Organization design to support usability  d) Comparisons of pointing devices.

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10.	a)	Explain an importance of hypertext over linear paper document. List important considerations for creating a good hypertext document.	8
	b)	Enumerate any four error messages encountered by you in GUI based interactive system. What guidelines can you suggest for presenting these error messages in an effective style?	8
11.	a)	Some of the favorite techniques of web pages these days include automatic scrolling text boxes, moving marquees, and constantly running animations (e.g. for icons). Discuss these features in terms of web design guidelines.	8
	b)	Speech recognition systems for Personal Computers are now becoming more affordable and useable.	10
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	b)	Multimedia document searches	
	c)	Organization design to support usability	
		Comparisons of pointing devices.	
		Shared Drawing Surfaces	
		associated ania dewegalloo moy roll ecalego an Interface for your college web site. Discuss	