Total	l No	. of Questions : 8] SEAT No. :
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		T.E. (Computer)
		HUMAN COMPUTER INTERFACE
		(2019 Pattern) (Semester - I) (Elective - I) (310245 B)
Time	: 21/	2 Hours] [Max. Marks: 70
Instr	ucti	ons to the candidates:
	<i>1)</i>	Answer Q1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, and Q.7 or Q8.
	2)	Figures to the right side indicate full marks.
	3)	Near diagrams must be drawn whenever necessary.
	<i>4)</i>	Make suitable assumption whenever necessary.
Q1)	a)	Explain interaction styles: [6]
		i) Command-line and
		ii) Menu Selection.
	b)	Which are the characteristics of Graphical User Interface? Explain. [6]
	c)	Discuss software life cycle importance used in HCL using appropriate
		example. [6]
<i>Q2</i>)	a)	Explain interaction styles: [6]
		i) Form fill-in and
		ii) Direct Manipulation.
	b)	Elaborate the characteristics of Web using Merging of Graphical
		Business Systems and Web characteristics of Intranet [6]
	c)	Write down about Iterative design and Prototyping using suitable
		example. [6]
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<i>Q3</i>)		Describe GOMS model. [6]
	b)	Write short note on: [6]
		i) Formative evaluation.

ii) Summative Evaluation.

Elaborate Heuristic Evaluation with example.

OR

c)

[5]

Q4)	a)	Evaluate Evaluation Framework using DECIDE.	[6]
	b)	Write short note on:	[6]
		i) Empirical Methods: Experimental Evaluation.	
		ii) Field Studies.	
	c)	Elaborate Cognitive Walkthrough.	[5]
		Chr. Or.	
Q5)	a)	Describe paradigms used for Interaction in HCI:	[6]
		i) Time Sharing.	
		ii) Video Display Unit.	
		iii) Programming Toolkits.	
	b)	What is mean by ubiquitous computing? Which are the application	ns of
		it? Explain with suitable Example.	[6]
	c)	Explain sensor-based and context-based interaction.	[6]
		OR SO	
Q6)	a)	What is mean by framework in HCI? Explain Five-stage se framework.	earch
	b)	Explain "Dynamic queries and faceted search" used in HCI.	[6]
	c)	What is mean by pattern recognition? Explain phases involved in pa	
	C)	recognition process with suitable example.	[6]
		recognition process with suitable example.	ſοΊ
O_{7}	a)	Write short note on:	[6]
2/)	a)	i) Mobile form factors.	[O]
		ii) Handheld format apps.	×,
	b)	Discuss Mobile Navigation, Content, and Control Idioms i	ısing
	0)	appropriate example.	[6]
	c)	Write down about designing for automotive interfaces in HCI.	[5]
	C)	OR	[2]
Q8)	a)	Describe Drawers used in HCL System. Explain Item-level drawers	s. [6]
20)	b)	Discuss Tap-to-Reveal and direct manipulation in detail.	6] [6]
	c)	Write down about designing for mobile devices using HCI.	[5]