Total	No.	. of Questions : 8] SEAT No. :
P48		[Total No. of Pages : 2
		T.E. (Information Technology)
	Н	IUMAN COMPUTER INTERACTION INFORMATION
		TECHNOLOGY
		(2019 Pattern) (Semester - I) (314444)
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		[Max. Marks : 70 ons to the candidates:
	() ()	Answers : Q.1. or Q.2, Q.3 or Q.4,, Q.5 or Q.6, Q.7 or Q.8.
2	<u>(</u>)	Neat diagrams must be drawn wherever necessary.
	9)	Figures to the right side indicate full marks.
4	!)	Assume Suitable data if necessary.
Q1)	a)	What are User Profiles explain with example? [8]
	b)	Hierarchical task analysis (HTA) is used to describe the interactions
		betveen a user & software system. Draw & explain HTA to online bus
		reservation system? [9]
		OR OR
Q2)	a)	Explain Norman's 7 stage model with example. [8]
	b)	Differentiate between Goals Vs Tasks. How does GOMS help in
	- /	improving usability? Draw GOMS for CLOSE-WINDOW. [9]
<i>Q3</i>)	a)	Explain the principle of learnability and principle of flexibility with
20)	α)	example. [9]
	b)	i) Draw and explain Software design process.
	0)	ii) Explain the importance of User Focus from HCl perspective.
0.4	`	OR OR
<i>Q4</i>)	a)	What is Prototyping? Explain the low-fidelity and High fidelity designs
		with example. [9]
	b)	Consider any online food ordering system, draw model-view-controller

- (MVC) framework. Mention the necessary technology solutions available for each of MVC. [9]
- Explain DECIDE framework with necessary diagram and an example of the same.

 [8]
 What are the goals of evaluation? Explain Cognitive walkthrough and **Q5**) a)
 - heuristics evaluation technique in detail. [9]

<i>Q6</i>)	a)	Explain user interface management system (UIMS) in detail alo	ng with its
		architecture?	[8]
	b)	Write a short note on.	[9]
		i) Toolkits	
		ii) Usability testing	
Q7)	a)	Explain	[9]
		i) Augmented Reality	
		ii) Virtual Reality along with real life examples of both.	
	b)		designing
	ĺ	interfaces for	[9]
		i) smart homes	
		ii) smart devices	
		OR	
Q8)	a)	Draw and explain Design thinking in detail for any suitable appl	ication.[9]
	b)	In today's world finding things on the web has become easy	y. Discuss
		how multimodal interaction has enriched the experience.	[9]

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