Total 1	No. o	of Que	estions: 8] SEA	T No. :
P-7620			25	[Total No. of Pages : 2
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[6180]-140				
T.E. (Information Technology)				
HUMAN COMPUTER INTERACTION				
(2019 Pattern) (Semester - I) (314444)				
Æ1°	21/			,
Time: 2½ Hours] Instructions to the candidates:				[Max. Marks: 70
Instru	(cuon 1)		rer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
	<i>2</i>)		aiagrams must be drawn wherever necessary.	-90
	<i>3</i>)		res to the right side indicate full marks.	
	<i>4</i>)		me suitable data if necessary.	
	·		No.	
Q1) a	a)	- \^	Profiles are very important from design point	of view. Interface with
		. 7	profiles is helpful. Justify your answer?	[8]
1	b) 🔊	Hierarchical task analysis (HTA) is used to describe the interactions		
			veen a user & software system. Draw & expla	
		reser	vation system?	[9]
00)	`	Б 1	OR O	
~	a)	•	ain Norman's 7 stage model with example.	[8]
l	b)		does GOMS help in improving usability? Dra	
		WIIN	IDOW. Differentiate between Goals Vs Tasks	. [9]
				2101
Q3) a	a)		ain the following principles with example.	\$19]
		i)	Learnability	
_		ii)	Flexibility	O Vy.
1	b)	i)	Draw and explain Software design process.	0'8'
		ii)	Explain the importance of User Focus from I	TCl perspective.

OR

Q4) 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]

P.T.O.

[9]

Explain DECIDE framework with necessary diagram and an example of **Q5**) a) the same. What are the goals of evaluation? Explain Cognitive walkthrough and b) heuristics evaluation technique in detail. [9] **Q6**) a) Explain user interface management system (UIMS) in detail along with its architecture? [8] Write a short note on-i) Toolkits ii) Usability testing b) [9] **Q7**) a) Explair [9] Augmented Reality i) Virtual Reality along with real life examples of both. ii) Discuss in the detail the Challenges faced by designer while designing b) interfaces for [9] smart homes smart devices Draw and explain Design thinking in detail for any suitable application.[9] **Q8**) a) In today's world finding things on web has become very easy. Discuss b) [9]

Ohear and the state of the how the multimodal interaction has enriched the experience.