Total No. of Questions: 8]	90	SEAT No.:	7
PA-1502		[Total No. of Pages : 2	2

## [5926]-122 Г.Е. (E&TC)

T.E. (E&TC)					
INFORMATION TECHNOLOGY					
Human Computer Interaction					
	(2019 Pattern) (Semester - I) (314444)				
Time:	21/2	Hou			
Instru	ctio	ns to	the candidates:		
1	1)	Ansv	vers : Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8		
2	2)	Neat	diagrams must be drawn wherever necessary.		
3	3)	Figu	res to the right indicate full marks.		
4	<b>4</b> )	Assu	me Suitable data if necessary.		
		J.			
<b>Q1</b> ) a	a) 🖔	Exp	lain Goal and task hierarchy model with example. [8]		
t	o)		archical task analysis (HTA) is used to describe the interactions		
			veen a user & software system. Draw & explain HTA to online Movie		
		bool	king system? [9]		
			OR		
<b>Q2</b> ) a	a)	Diff	erentiate User Profiles with respect to Interface design with example.		
ŀ	o)		v does Diagrammatic dialog design notations help designers to design		
		bette	er interfaces. Justify your answer with an example. [9]		
<b>Q3</b> ) a	a)	Exp	lain the following golden rules with example. [9]		
		i)	Strive for consistency		
		ii)	Enable frequent users to use shortcuts		
		iii)	Offer informative feedback		
t	o)	Exp	lain the following with reference to interface design with example[9]		
		i)	Scenarios		
		ii)	Navigation Design		
		iii)	Screen Design		
		,	OR OR		

<i>Q4</i> )	a)	What is Prototyping? Explain the low-fidelity and High-fidelity designs with example. [9]
	b)	Consider any online digital library, draw Model -View- Controller (MVC) framework. Mention the necessary technology solutions available for each of MVC
		each of MVC. [9]
Q5)	a)	What are the goals of evaluation? Explain Cognitive walkthrough and heuristics evaluation technique in detail. [8]
	b)	What is Usability testing? How will you perform Usability testing on an interactive interface? [9]
		OR
<b>Q6</b> )	a)	Explain user interface management system (UIMS) in detail along with its architecture? [8]
	b)	Explain DECIDE framework with necessary diagram and an example of
		the same. [9]
<b>0.5</b> )	,	
<b>Q</b> 7)	a)	Explain: i) Augmented Reality ii) Virtual Reality along with real life examples of both. [9]
	b)	Discuss in the detail the Challenges faced by designer while designing interfaces for [9]
		i) Smart homes ii) Smart devices
		OR
<b>Q</b> 8)	a)	Draw and explain Design thinking in detail for any suitable application.[9]
	b)	In today's world finding things on web has become very easy. Discuss how the multimodal input has enriched the experience.
		how the multimodal input has enriched the experience. [9]
		Draw and explain Design thinking in detail for any suitable application.  In today's world finding things on web has become very easy. Discuss how the multimodal input has enriched the experience.  [9]
		6.
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