Reg. No.:					

Question Paper Code: 49220

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Computer Science and Engineering

14UCS920 - HUMAN COMPUTER INTERACTION

		(Regulation	n 2014)			
Duration: Three hours				Maximum: 100 Marks		
		Answer ALL	Questions			
	1	PART A - (10 x 1	1 = 10 Marks)			
1. \	Which of the following fields	s is not an influer	nce on HCI?			
	(a) ergonomics		(b) cognitive psychology			
2.	(c) computer science have two orth	nogonal dials to c	(d) all of the above control the cursor position.			
	(a) Mouse	(b) Joystick	(c) Thumbwheels	(d) Trackballs		
3.	The network diagram show	S				
(a) what leads to what			(b) what happens when			
	(c) Branches and loops		(d) All of the mention	ned		
4.	4 is a graphical depiction of the outward appearance of the intended system, without any accompanying system functionality.					
	(a) Animation	(b) Storyboard	(c) Simulation	(d) HyperCard		

5. _____ attempts to deal with some of these problems by including elements such as parameterized grammar rules to emphasize consistency and encoding the user's world knowledge.

(a) Task action grammar

(b) Backus-Naur Form

(c) Cognitive complexity theory

(d) None of the mentioned

6. _____ is design in the workplace, where the user is involved not only as an

	experimental subject or as someone the design team.	to be consulted when necessary but as a me	mber of				
	(a) Conceptual design	(b) Soft systems method					
	(c) Participatory design	(d) ETHICS method					
7.	platforms are design devices.	ed and developed by device makers for use	on their				
	(a) Licensed platforms	(b) Proprietary platforms					
	(c) Open source platforms	(d) None of the mentioned					
3.	is the design of how the user can participate with the information present, either in a direct or indirect way.						
	(a) Information design	(b) Navigation design					
	(c) Interface design	(d) Interaction design					
9.	Gmail is a good example of actions	in concert with selection.					
	(a) Toggle Selection	(b) Object Selection					
	(c) Collected Selection	(d) Hybrid Selection					
10.). The overlay allows an overlay to present additional information when the user clicks or hovers over a link or section of content.						
	(a) Dialog Overlay	(b) Detail overlay					
	(c) Input Overlay	(d) Output overlay					
	PART -	B (5 x $2 = 10 \text{ Marks}$)					
11.	Write note on gestalt theory of prob	lem solving.					
12.	Give a model of Interaction design p	process.					
13.	Classify stakeholders of an airline b	ooking system					
14.	What is mobile HCI?						
15.	List the various page elements.						
	PART - 0	$C (5 \times 16 = 80 \text{ Marks})$					
16.	(a) Explain in detail about human in	nput and output channels.	(16)				
		Or					
		5.21					

	(b)	(1) Identify input and output devices used for digital cartographic system. For compare and contrast alternatives, and indicate why conventional keyboard, mouse and CRT screen may be less suitable?	
		(ii) Explain the stages in Norman's model of interaction.	
17.	(a)	(i) Write a scenario for the personal movie player.	(8)
		(ii) Illustrate application functional hierarchy with neat block diagram.	(8)
		Or	
	(b)	(i) Discuss the activities in software life cycle with neat sketch.	(8)
		(ii) Mention and Explain Nielsen's ten heuristics.	(8)
18.	(a)	(i) Create a GOMS description of the task of photocopying an article from a journal. Discuss the issue of closure in terms of your GOMS description.	(8)
		(ii) Briefly describe the key stages of CUSTOM analysis.	(8)
		Or	
	(b)	(i) Explain Effective Technical and Human Implementation of Computer- bases Systems (ETHICS) and how the design groups then address the following and activities.	
		(ii) Describe and discuss about many applications of hypermedia.	(8)
19.	(a)	(i) Describe the layers of the mobile ecosystem with neat sketch.	(8)
		(ii) Illustrate clickstreams with an example clickstream for an iPhone web application.	(8)
		Or	
	(b)	Discuss in detail about the Elements of Mobile Design.	(16)
20.	(a)	Explain and analyze the contextual tools in detail.	(16)
		Or	
	(b) (Give explanation in detai labout Dialog Inlay,List Inlay, and Detail Inlay?	(16)