<u>Human Computer Interaction HCI Sheet-1-SWE-Level 4-2021-Dr. Hatem</u>

1)	What is an important advantage of command-line interfaces over graphical user						
	interfaces?						
	The mental load for the user is low (recall over recognition).						
☐ The user is not distracted by an abundance of menus, icons, toolbars,							
	They work well for repetitive jobs like payroll processing or billing.						
	Complex operations can be performed more efficiently, e.g. through command						
	languages.						
2)	Why should modal dialog boxes be used with care?						
	They are very disruptive and prevent users from continuing their task.						
	They have high resource requirements on the computer system.						
	They frequently lead to application or system crashes.						
2 \	They are difficult to program because they have to work across applications.						
3) Under which circumstances is the use of CAPITAL LETTERS appropria							
	layout and design?						
	Never, because text in capital letters is more difficult to read.						
	To better distinguish text from the numbers when text and numbers are mixed.						
	To emphasize important items like field names, titles, or main categories.						
	It should be used as often as possible because it reduces the number of bits required						
4)	for the representation of characters. The automatic code generation feature of user interface development tools can be very						
4)	useful, but it can also be a disadvantage. What is the potential problem with automatic						
	code generation?						
	☐ In the long run, it might put software developers out of work.						
	☐ The generated code can be inefficient and unnecessarily complex.						
	Automatically generated code is very difficult to port across different platforms.						
	☐ The generated code typically contains more errors than code written by						
	programmers.						
5)	Out of the following user interface prototypes, which one has the lowest fidelity?						
	☐ A simulation of the interactive user interface, e.g. implemented in Visual Basic.						
	☐ A storyboard presentation.						
	A textual description in a few paragraphs.						
	☐ A series of drawings prepared with a graphics package.						
6)	In which phase of the UI design cycle should evaluation be performed?						
	☐ Throughout the design cycle.						
	☐ After the elicitation of user requirements.						
	☐ After prototyping.						
	☐ After implementation						
7)	Which usability testing method can be applied before the actual design of the product						
	or system begins?						

Contextual inquiry.
Focus groups.
Heuristic evaluation.
Co-discovery.

8) What is an important purpose of developing prototypes for a user interface?						ace?		
	☐ Developers use them to get familiarized with the tools they use.							
		Users can give early feedback, which can be more easily integrated into the						
		design proces	<u>S.</u>					
		Prototypes car available.	n be used for marketi	ng purposes long l	before the ac	etual product is		
		•	e user interface design of the underlying system	_	letely separ	ated from the		
9)	Al	Ithough humans often rely on spoken natural language to communicate with each						
		ther, spoken language is not used very heavily in human-computer interfaces. What is						
	an	n important reason for that?						
		The bandwidth of the auditory channel is more limited than that of the visual channel.						
		Computers would have to understand many different languages and dialects.						
		<u>It requires sp</u>	eech recognition by	ition by computers, which as of now is too error-				
		prone and con	nsumes too many res	sources.				
			by computers sounds					
10)			become a practically i					
	_		<u>efficient formulatio</u>					
		•	e cursor movements, t					
		• •	quick access to freque	•	, ,	*		
		They can be a	dapted easily to the sp	ecific preferences	of individual	users.		
1		are most often	used to represent obje	ects and actions wit	h which user	s can interact with or		
that	th	ey can manipula	2 0					
A)	Ico	<u>ons</u>	B)Windows	C)Screens	D)Non	e		
_								
2.	т.	_	was caused by the thir	_				
<u>A)</u>	1co	<u>ons</u>	B)Windows	C)Screens	D) Ind	ex		
3.		A sign that	may be completely ar	hitrary in annearan	nce			
	•		B)Windows	C)Screens		D)None		
11)	<i>-</i>		b) windows C)Screens		<i>D)</i> 1 (01)			
4.		movement i	s independent of a s	system event, chan	ging appeara	ance to represent		
fun	ctio	ons, processes, s	states, and state transit	tions		-		
<u>A)</u>	Dy	namic icon's	B) Static ico	n's C	C)Both	D)None		
5			ify links that may be		_			
-	Na	vigational	B)Horizontal		al	D)None		
6.	<u> </u>		items mentioned in the		D) D			
A)	Urg	ganizational.	B) Navigational	C)Screens	D) Kej	presentational		
7.		is used to deni	ct relationships among	o items mentioned	in text			
)rg	is used to depi ganizational.	B) Navigational	•	esentational)None		
/			= / 1 2001011011	e, nopre		/= · · · · · · ·		

8 .is used to sho A) Explanative	w how things or proce B)Directive		D) Decorative				
9 is provide visual a A) Decorative		C) Directive	D)Non				
_	rmatting aid, color can B)Flow	provide better structur C)Screens	parts and how they are related e and meaning to a screen D)None				
1. Which of the following fields is not an influence on HCI? (a) Ergonomics (b) Cognitive psychology (c) Computer science (d) All of the above are an influence on HCI							
 2. Scripting (the ability to record and play back programmable sequences of actions) is an example of: (a) Speaking the user's language (b) Allowing the user model to grow (c) The recognition rather than recall_ principle (d) A mode in the user interface design 							
an example of which	of the following: [ather than recall princi	-	move them into the folder, is				
_		contents. An animation s is an example of whic	appears on the screen, showing h of the following:				
	warning not to expose aint int nt	lastic anti-static bag. The the card to static elect	ne bag is sealed with a yellow ricity. The sticker is an				

- 6. Which of the following statements is false?
- (a) Norman's logical constraints are one way to implement Nielsen's principle of error prevention.
- (b) The help and documentation called for by Nielsen's usability principle form part of Norman's definition of the system image.

(c) Norman's principle of feedback is one way to implement Nielsen's principle of recognition rather than recall.

- (d) All of the above statements are true.
- 7. Which of the following statements is true?
- (a) Violating Norman's feedback principle interferes with the fourth stage of Norman's Seven Stages of Action.
- (b) There is no ethical way to collect data about people without their informed consent.
- (c) Structured interviews are less likely to miss salient details than un-structured ones.
- (d) All of the above statements are false.
- 8. Which of the following gestures makes use of a quasi-mode?
- (a) Selecting one of the commands (draw, spray paint, etc.) in the tool palette of a paint program.

(b) Using the Ctrl-V shortcut to paste text.

- (c) Clicking a link in a web browser.
- (d) All of the above make use of quasi-modes.
- 9. Unlike traditional observation, guided observation:
- (a) Sets strict guidelines for session activities
- (b) Reduces error introduced by the experimenter
- (c) Sets strict guidelines for session lengths

(d) Includes some interaction with participants

10. The Num Lock key found on many keyboards, which enables the user to use the number functions of the numeric keypad rather than the cursor control functions, indicates which of the following features is present:

(a) A mode

- (b) A quasi-mode
- (c) A physical constraint
- (d) A logical constraint
- 11. As we have used the terms in this course, what is the relationship between tasks, actions, and goals?
- (a) A task is composed of goals and actions to accomplish those goals
- (b) An action reifies a task into a goal
- (c) A goal is composed of a set of actions that accomplish a task

(d) None of the above

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- 13- How many basic steps are there in interaction design process?
- a. 4 **b. 5** c. 6 d. 3
- 14- What does HTA stand for?
- **a. Hierarchical task analysis** b. HTML Application c. Human Tissue Authority d. Human task analysis
- 15- In virtual reality which of the senses cannot currently be portrayed? Select one:
- a. Sight b. Touch c. Smell d. Hearing