Human-Computer Interaction (HCI) (706.021 3VU Mensch-Maschine-Kommunikation SS 2015)

Multiple Choice Test (15 Minutes)

- Write your name and Matrikelnummer at the top of the page.
- For each choice, clearly mark the circle \otimes , if that choice is correct (true, T). Clearly mark the box \boxtimes , if that choice is incorrect (false, F). Do not mark both the circle and the box, do not leave both empty.
- If you make a mistake, clearly write the word "true" or "false" in the margin next to the boxes.
- There may be zero, one, or multiple correct choices for each question.
- For each question, you will either gain full points or zero points. To gain full points, you must *correctly* identify each choice as true or false (exact match).
- Unless otherwise stated, the questions assume a Microsoft Windows computing environment.
- This is a closed book test. No books, lecture notes, or other materials are allowed.
- No calculators, mobile phones, PDAs, or other electronic devices are allowed.
- A printed English-German dictionary may be used.
- Please place your student id on the desk in front of you

		• 1	Please place your student id on the desk in front of you.			
T F 1. Short-Term Memory (STM):						
	X	A.	cannot retain information for more than 7 ± 2 seconds.			
\bigcirc		B.	is extremely fragile.			
\bigcirc	X	C.	is the memory of the past.			
\bigcirc	X	D.	is limited to 11 ± 2 items at a time.			
		2 D	agarding gaar un agaidants:			
T	F		legarding gear-up accidents:			
\bigcirc	X	A.	Pilots frequently lowered the landing gear instead of the flaps after take-off.			
\bigcirc	X	B.	Lt. Alphonse Chapanis dicovered the cause of the problem in 1975.			
\bigcirc	X	C.	The flap control knobs were replaced by beer tap handles.			
(x)		D.	Shape-coded wheel and flap controls are still used today.			
3. Regarding usability engineering:						
X		A.	Usability engineering is a process.			
(x)			Iterative design refers to "Design, Test, Redesign.".			
\bigcirc	Х	C.	The usability engineering lifecycle includes the phase "Usability Research".			
\bigcirc	Х	D.	The usability engineering lifecycle includes the phase "Cognitive Design".			
Т	F	4. A	A persona in the context of goal-oriented interaction design:			
\bigcirc	Х	A.	is a real person.			
\bigcirc		B.	represents a particular type of user.			
\bigcirc	X	C.	represents the average user.			
\bigcirc		D.	is used to role-play through an interface design.			

Т	F	5. V	What is true for <i>vertical protoyping</i> ?
\bigcirc		A.	It is a particular kind of working prototype.
\bigcirc		B.	It provides some in-depth functionality.
\bigcirc	X	C.	It provides full interface features.
\bigcirc	X	D.	It is designed to show how much vertical scrolling is acceptable.
T	F		Which of these are components of the CE+ model of exploratory learning behaviour?
(x)			Problem-Solving Component
\bigcirc	Х		Exploration Component
(x)			Learning Component
(x)		D.	Execution Component
		7. V	Which of these are usability <i>testing methods</i> ?
T	F		Thinking Aloud
\bigcirc	X		Cognitive Walkthrough
$\stackrel{\smile}{(x)}$			Observational Studies
$\stackrel{\smile}{(x)}$			Interviews
Т	F	8. V	What are the pros (advantages) of using a <i>formal experiment</i> ?
\bigcirc	X	A.	Finds why problems occur.
\bigcirc	X	B.	Usable early in development cycle.
\bigcirc		C.	Allows comparison of alternative designs.
\bigcirc	X	D.	Requires only a small number of test users.
		9 R	Regarding font sizes and styles:
\bigcap^{T}	F		$1 \text{ pt} = \frac{1}{32} \text{ inch.}$
	х		Examples of serif fonts include Times Roman and Helvetica.
\times			Examples of sans serif fonts include Arial and Verdana.
$\langle x \rangle$			A serif is a slight embellishment at the end of a letter stroke.
		٥.	
Т	F	10.	If <i>icons</i> are well-designed they:
\bigcirc	X	A.	are large and stand out easily.
\bigcirc		В.	can be recognised quickly in a busy visual environment.
\bigcirc		C.	help interfaces become international.
\bigcirc	X	D.	fascinate the user with their many colours.