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.

T F	1. <i>N</i>	Supplings:			
_ x	A.	are possibilities for using an object (or interface).			
x _	B.	are relationships between controls and their effects on a system.			
\bigcirc x	C.	are cultural constraints.			
x _	D.	may take advantage of physical analogies and cultural standards.			
2. Regarding the measurement of usability attributes:					
\bigcirc x	A.	Reliability is measured by performing common use cases.			
x 🗆	В.	Errors are measured by counting both minor and catastrophic errors made by users.			
x _	C.	Sample expert users are needed to measure efficiency.			
	D.	Learnability is determined by measuring the time it takes to explain an interface to a new user.			
3. Which description(s) of <i>learning curves</i> for hypothetical systems is (are) correct?					
<u> </u>	A.	The learning curve is independent of the focus of the system on the type of user (novice or expert).			
× _	В.	The learning curve approximates to a lower value of efficiency if the system focuses on novice users.			
\bigcirc x	C.	A system focused on expert users provides higher efficiency at all times.			
x 🗆	D.	Efficiency increases more steeply in a system focused on expert users.			
4. Regarding brainstorming:					
\bigcirc x	A.	Brainstorming should be done in familiar surroundings.			
\bigcirc x	B.	To keep things organised, immediately reject impossible solutions.			
\bigcirc x	C.	Sketch in pencil on Post-It notes.			
× _	D.	Conisder the practicality of ideas only after brainstorming has finished.			

Т	F	5. V	Which of the following are recognised kinds of <i>prototypes</i> :			
X		A.	Interactive sketches.			
\bigcirc	X	B.	Cognitive models.			
(x)		C.	Paper prototypes.			
X		D.	Verbal prototypes.			
_	6. Which of these are <i>usability heuristics</i> (from Nielsen's 1994 revised list):					
т ()	F	A.	Don't Make Me Think			
(x)		В.	Match Between System and the Real World			
\bigcirc	Х	C.	Keep It Simple			
X		D.	Error Prevention			
7. Cognitive Walkthrough:						
T	F		is a summative evaluation method.			
$\stackrel{\circ}{\mathbb{X}}$			always tracks the correct action sequence.			
(x)			focuses explicitly on learnability.			
\bigcirc	Х		is performed by a single evaluator, who walks through a typical task.			
Т	F	8. V	Which of the following are valid <i>testing roles</i> in the test team?			
X		A.	Computer operator			
X		В.	Test facilitator			
\bigcirc	Х	C.	Test subject			
X		D.	Data logger			
Т	F	9. V	What are the pros (advantages) of using a <i>formal experiment</i> ?			
	Х	A.	Finds why problems occur.			
\bigcirc	Х	В.	Usable early in development cycle.			
X		C.	Allows comparison of alternative designs.			
\bigcirc	Х	D.	Requires only a small number of test users.			
Т	F	10.	Regarding the <i>Memex</i> :			
X		A.	It was a design based on mechanical levers and microfilm.			
X		B.	It was published by Vannevar Bush in 1945.			
X		C.	It proposed "trails" of links between documents.			
\bigcirc	Х	D.	It was implemented by Ted Nelson in 1968.			