

MILITARY COLLEGE OF SIGNALS
MIDTERM EXAM
BESE 15 – B
CSE 476 Human Computer Interfacing

Instructor: A/P Dr. Imran Siddiqi

Time: 90 Minutes

Max Marks: 30

(6+4)

Question 1

- a. Give one line answers to the following.
 - i. What are the two most important senses of an average person while interacting with a computer ?
 - ii. In the context of human memory, what is a semantic network ?
 - iii. Name two pointing devices, other than mice and joysticks.
 - iv. What does the term WYSIWYG refer to?
 - v. Which of the following two operations would typically be faster?
 - Moving the pointer into a 20 mm target from 40 mm away, or
 - Moving the pointer into a 30 mm target from 100 mm away
 - vi. Give an example of a sensor in the information world.
- b. For each of the following statements, choose the correct option.
 - i. Forgetting to take back your ATM card after cash withdrawal. (Slip/Mistake)
 - ii. Buying Microsoft Excel license to make data available to web clients through SQL queries. (Slip/Mistake)
 - iii. London to Paris takes 8 hours by bus. (Semantic/Procedural/Episodic memory)
 - iv. In the previous semester I taught to BESE15A, now I am teaching to BESE15B. When someone asks me which course am I teaching, I always end up saying BESE15A. (Retroactive Interference/Proactive Inhibition)
 - v. Video conferencing is a type of asynchronous groupware. (True/False)
 - vi. The most common form of color blindness is blue/yellow color blindness. (True/False)
 - vii. If speech recognition rates are 100%, speech will be the best input method in all situations. (True/False)
 - viii. Isaac Newton used _____ reasoning to develop the theory of gravity. (Inductive/Deductive/Abductive)

(2+2+2)

Question 2





- a. In the context of Abowd & Beale framework, identify each of the following as an *Articulation, Performance, Presentation* or *Observation* problem.
 - i. You want to turn on a particular fan in the class room, the switch board has a large number of buttons and you cannot figure out which button goes with which fan.
 - ii. Difficulty in reading time from an unmarked clock.

- iii. You transferred an amount from one account to another account using the ATM machine but the machine did not give any confirmation message that the funds have been transferred.
 - iv. You want to turn off the DVD player but the remote control does not include a button for turning it off.
- b. Give one advantage and one disadvantage of Command Line Interface.
 - c. List the three criteria for grouping controls and displays.

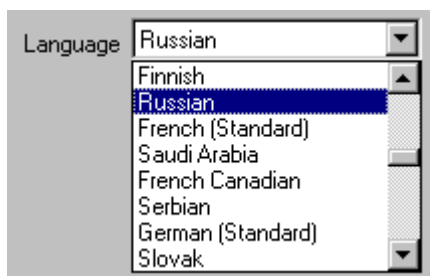
(4+5)

Question 3

- a. Consider the following icons with a brief description of each. For each of these icons state if it is a good or a misleading metaphor. Support your choice with reasoning.

i.		An envelope icon for sending an email
ii.		A traffic cone used as icon for VLC media player.
iii.		Icon for a software that allows burning of CDs. The icon shows disks emerging from a toaster.
iv.		Paper clip icon for attachment with an email

- b. State what is wrong with each of the following. Give the most obvious reason in ONE line. Discussions or details are not required.



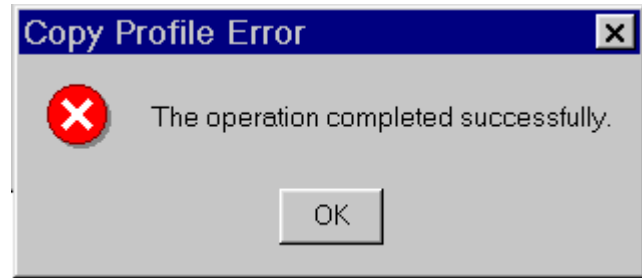
(i) A language selection drop down list



(ii) A dialog box during a file transfer

High Scores			
	Player	Score	Remain
0)	tommie	15006	25
1)	heidi	14608	18
2)	tommie	14460	50
3)	tommie	14370	9
4)	tommie	14200	11

(iii) A screen showing highest scorers in a game



(iv) A message after copying a profile



(v) A dialog box from Microsoft Word

(4+1)

Question 4

- a. A dealer in electronic equipment has established a call center for handling customer complaints. Imagine an operator working in the call center who needs to receive the complaints and take a note of the address and telephone number of the customer so that a technician could be sent to check the equipment. There are many ways to build an interface to support such an operator. For each of the following interaction styles, give one comment on why it would or would not be suitable for this task.
 - a. Command line interface
 - b. Menu selection
 - c. Form fills
 - d. Point & click
- b. Draw an icon for a confused person.

+++++++ Bon Courage +++++++