

National University of Computer and Emerging Sciences, Lahore Campus

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AND LANGE OF THE PARTY OF THE P	Course Name:	Human Computer Interaction	Semester:	Spring 2020
TUTUNAL DAILER	Program:	CS	Total Marks:	30
STEP CONTROL	Duration:	60 Minutes	Weight	15
3 3 3	Paper Date:	26-FEB-2020	Page(s):	5
ALDRIMS & RITH	Section:	ALL	1 23 5 (- / -	
and the second second	Exam Type:	Midterm-I		

Student: Name: M. Romman Wadeum Roll No. 17 L-4 (82 Section: ______ Instruction/Notes: Solve on question paper, answer sheets are not required.

Question 1. What input and output devices would you use for the following systems? For each, compare and contrast alternatives, and if appropriate indicate why the conventional keyboard, mouse and CRT screen may be less suitable. (3 x 4 Points)

(a) Portable word processor for blind and normal users.

Input Devicel: Touch Screen, the Touch screen devices will be wed for this portable wond processor as this housto will allow used to carry along

Input Device2: voce voice recongnisation, for bund uscus this is an early way to interact as their sound will be convicted into tout.

Output Device1:

when using touch ween for input, the information in displayed on as LCD screen

Output Device2:

to output de the convented tent into speech ter bind users.

* conventional neglocard, mouse and CRT screen are
Lus suitable because this sacra system should be
portable while there denses will make this process Less
conveinent.

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Input Devicel: Touch screen to select menu or ophings to enplore information. Karybooked a joystich course was emplore information. Karybooked a joystich course was emplore graphical images and more with such

microphone for speech detection for prind

LCD screen for for helter result, for e.g a seg system unich allows Tourist to search nor process may can visit. Homagy can be displayed.

speaker to tell were what is on screen Output Device2:

A aneyboard and nouse and mouse and the defined ins matruchances a

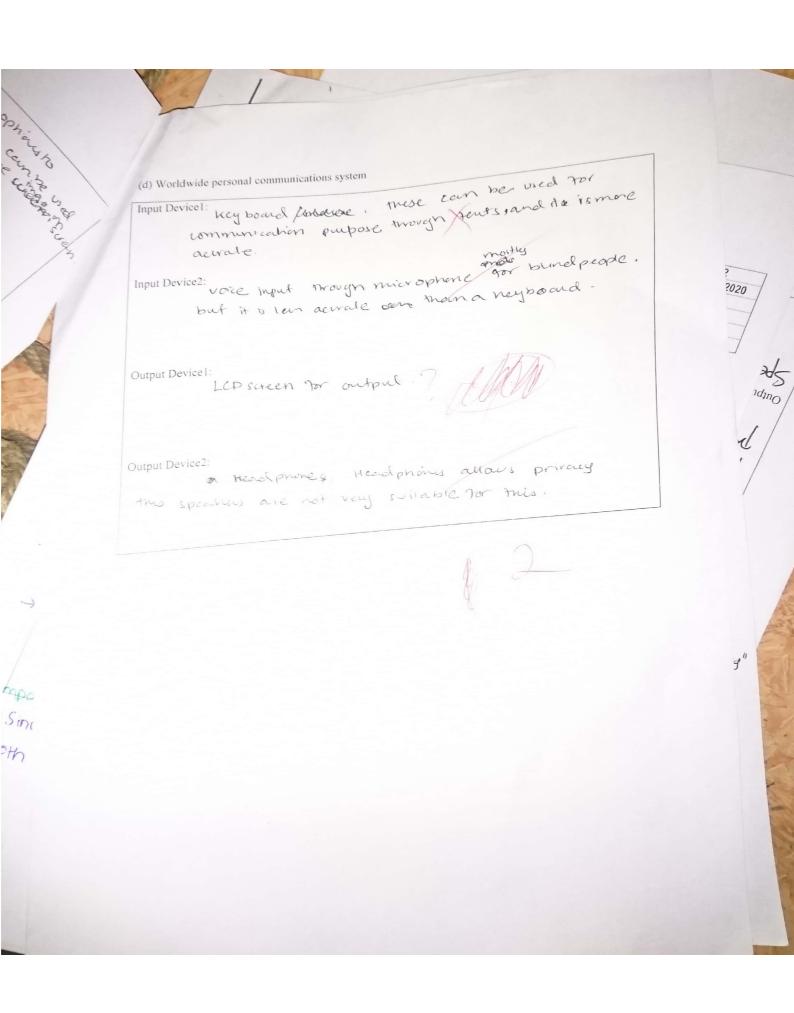
(c) Air traffic control system

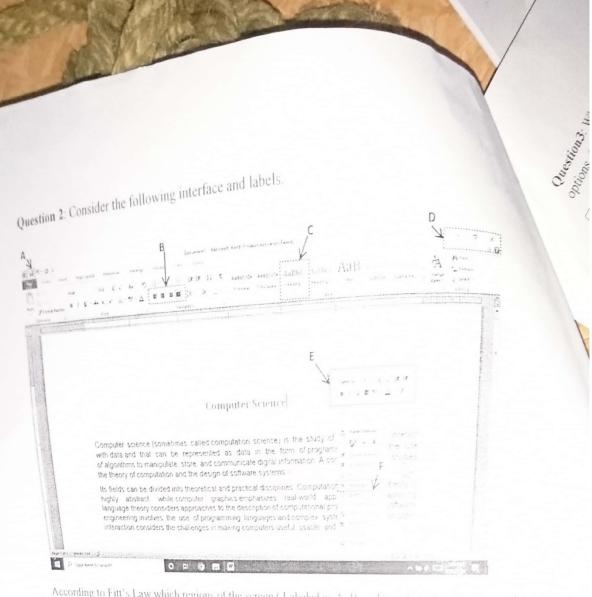
Input Devicel: keybound and mouse. activacy as here touch screen construction and service of of intricale situations

Input Device2: microphone for speach recognishen as the traffe contract prots so voice commencemen makes it early for poth blind and normal

Output Device1: & conseque LCD screen displaying all the information. Output Device?: Can not be very wide and they take a lot of space. Output Device2:

headphoney / speaked for Air traffic controller as this can be wastermany and to listen deally without other sond intexter interferace instead A speakes





According to Fitt's Law which regions of the screen (Labeled as A, B.,.., F) rank ends accuracy to target with reference to cursor position. (Rank Las easiest or most accurate at 2 Points)

Rank	Label	Reason
1	F	As it is closer to the cursur and routen men uide enough for currento feled on opening
2	E	The f lasted is close with uson it to one of their
3	D &	
4	₩ C	The top of y sprace for y cycle every the top the top the control of the control
5	B	the Bland is leider than A and is at love
6	A	mix the A label is in widtle of other oping ones area is not also very wides and is very far auge

Question3: What can a system designer do to minimize the memory load of the user? Give at least two options. (4 Points) A designer should dupleny information in churus for e.g. if the system is designed to generate by code of 11 digits the screen should duplay code divided who several enuncial to screen should duplay to de divided who several enuncial for e.g. 0323 88-27-28-1 this will help use remember. mpus CS 422 If there are icons ored in a system their design should be bened in small market Spring 2020 bened on convenien for e.g. a relephone ich call. Price use content on convenien for e.g. a telephone icon for call. pur uswally content a received instead of a mobile icon for call new memoria. terener icon is similar and was can very on his how memory. Question4: A typical computer system comprises a QWERTY keyboard, a mouse and a color screen.

There is usually some form of landaracter as not. You should know how the keyboard mouse and There is usually some form of loudspeaker as well. You should know how the keyboard, mouse and screen work. If you were designing a background for a roaden computer, and you wanted to produce a screen work. If you were designing a keyboard for a modern computer, and you wanted to produce a faster, easier-to-use layout what information would not produce to know and how would that influence faster, easier-to-use layout, what information would you need to know and how would that influence the design of Points. For maning a neground which is now faster thous the design? (2 Points) the QWERTY Key sound. Firstly would require information A most correrorly wed letters while typing. I would likely to know what hand A people, will be using by neybound Errenample, a programmer users certain characters and vicinals or some see mays more frequently. More over, I would con for more when hand while typing is most used and which have can make a Jaster repine, the also varies with the audience. I will set heys to eather left or right side based on numbers of usess which are are significantiety" "highly" or "lefty".