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National University of Computer and Emerging Sciences, Lahore Campus

AND SOUND SHIPS	Course Name:	Human Computer Interaction	Course Code:	CS 422
	Program:	CS	Semester:	Spring 2020
	Duration:	60 Minutes	Total Marks:	30
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	Exam Type:	Midterm-I		

Student: Name: Ahmad Aijaz Roll No. 171-4111 Section: 60 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)

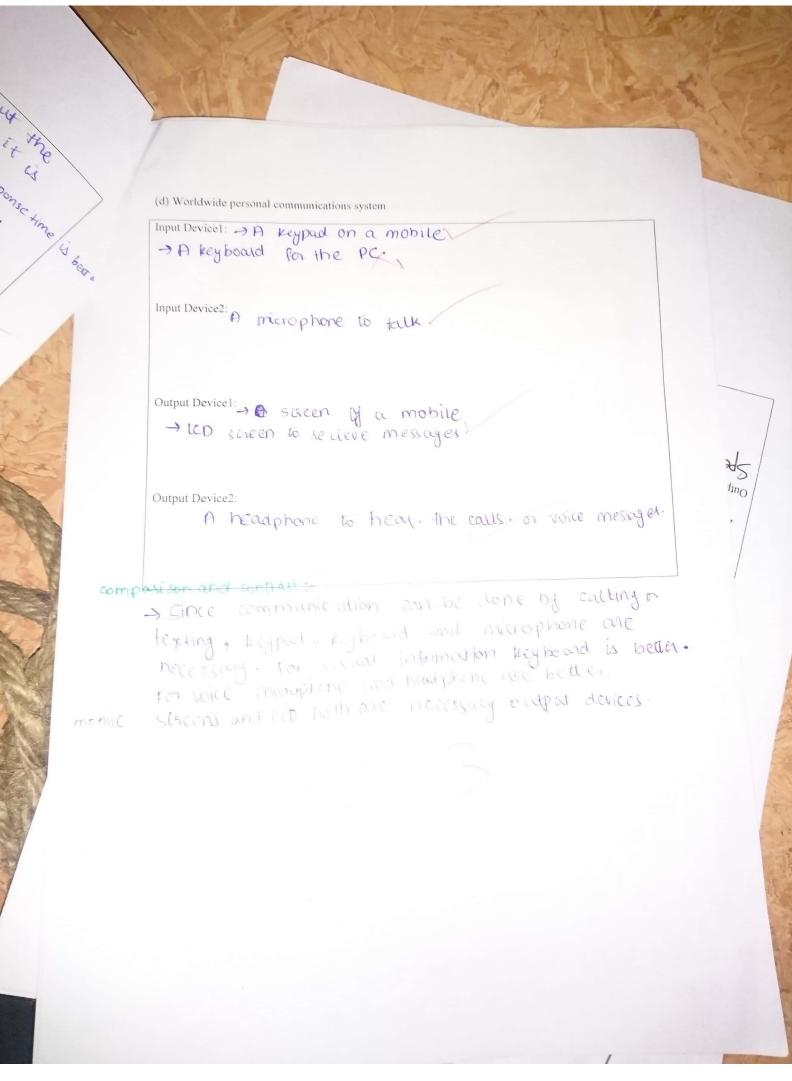
(a) Portable word processor for blind and normal users.

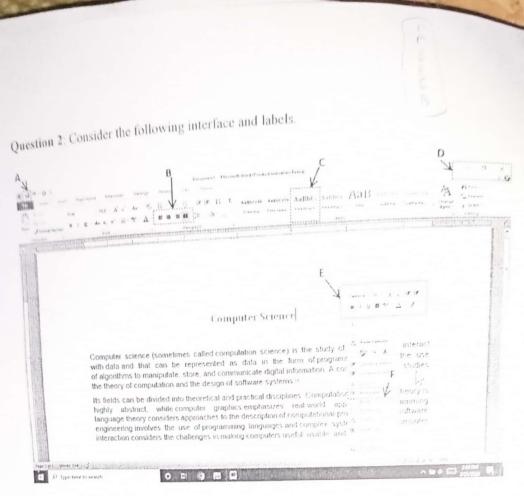
. See of the and normal users.
Input Device1: A Styling or pen. A key board to sight write.
Input Device2: A speed murophone that nive use the bind person voice to white mods.
Output Device 1: For blind user species grams the device should speak to certhe blind user know about details. For normal user of a good graphical intestace that will left the
Output Device2: A sound system for the blind wer that will make
a sound for every action.

Since this is made for both blind and normal user, so both the input and output devices are necessary:

(b) Tourist information system Input Device! key board, to let the user type about the destination. Owerly key boards are used most so it is most suitable input itovice. to because this is better and its respon Input Device2: - A mouse (optical). A mouse (optical). This will let the user choose who which destination. Best device for interaction. Output Device! An LCD sincer that will show the details abo the system. A cer success puts strain on eye and it do not show that good Givil like 100 sineen. Output Device2: CRT screen to show the details comparison and contract A keyboard is used for ijprij mas Both the input devices wire sheen is better than promod CRI some (c) Air traffic control system LC 35 CLCCC racky Input Devicel: A microphone or nead phone, I by which one person can send his voice message to the other person A keyboard (aweity) which mid let one user to send a message, that vill recieve by other wer. A speaker that viu produce sound caused by the input device 1. (microphone) Output Device2: An Los, or a screen (situated surens) that will show the information about the prir traffic system. lempartson and contrast to many the speake he will use microphone and if the work to right he will use the keyboard of For both tree input right he will use the key board of For both

coanned with CamScanner





According to Fitt's Law which regions of the screen (Labeled as A, B = 1) rank each ≈ 0.12 accuracy to target with reference to cursor position. (Rank Las easiest or must accurate (12 Proofts)

Rank	Label	Reason		
1	D	easy to arrieve. The chieff of a company to english to a company to a chief to a company to a co		
2	A	Because it is on the top left reintering		
3	E	This box is closer and bryger to in size		
4	F	Although it has small size but the listance is least so it can be vanked lith		
5	C	C I have ranked it 5th because it is bigger in size than B.		
6	B	I have ranked it oth because the distance is large and size is smaller.		

-> According to fitts law if the size of object is large and distance is small it is easiest to achieve.

Question3: What can a system designer do to minimize the memory load of the user? Give at least two He should give names to most of the objects in a program options. (4 Points) He should assign a related shape to that function RIKE 3 The tens & functions that one used most should be larger in size = Question4: A typical computer system comprises a QWERTY keyboard, a mouse and a color screen. There is usually some form of loudspeaker as well. You should know how the keyboard, mouse and 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 you need to know and how would that influence The information that I would use is that which format and texture of the Especial Contacts the user most The buttons of the keyboard should paghty give a response at every cuck (No missing) Accidental touch would be overded The buttons should require less force to be pressed.