16 + 1.5

## National University of Computer and Emerging Sciences, Lahore Campus

THE WILLIAM S WITH S S. S	Course Name:	Human Computer Interaction	Course Code:	CS 422
	Program:	CS	Semester:	Spring 2020
	Duration:	60 Minutes	Total Marks:	30
	Paper Date:	26-FEB-2020	Weight	15
	Section:	ALL	Page(s):	5
	Exam Type:	Midterm-I		

Student: Name: Ahmed Waheed Roll No. <u>L174367</u> Section: A Instruction/Notes: Solve on question paper, answer sheets are not required.

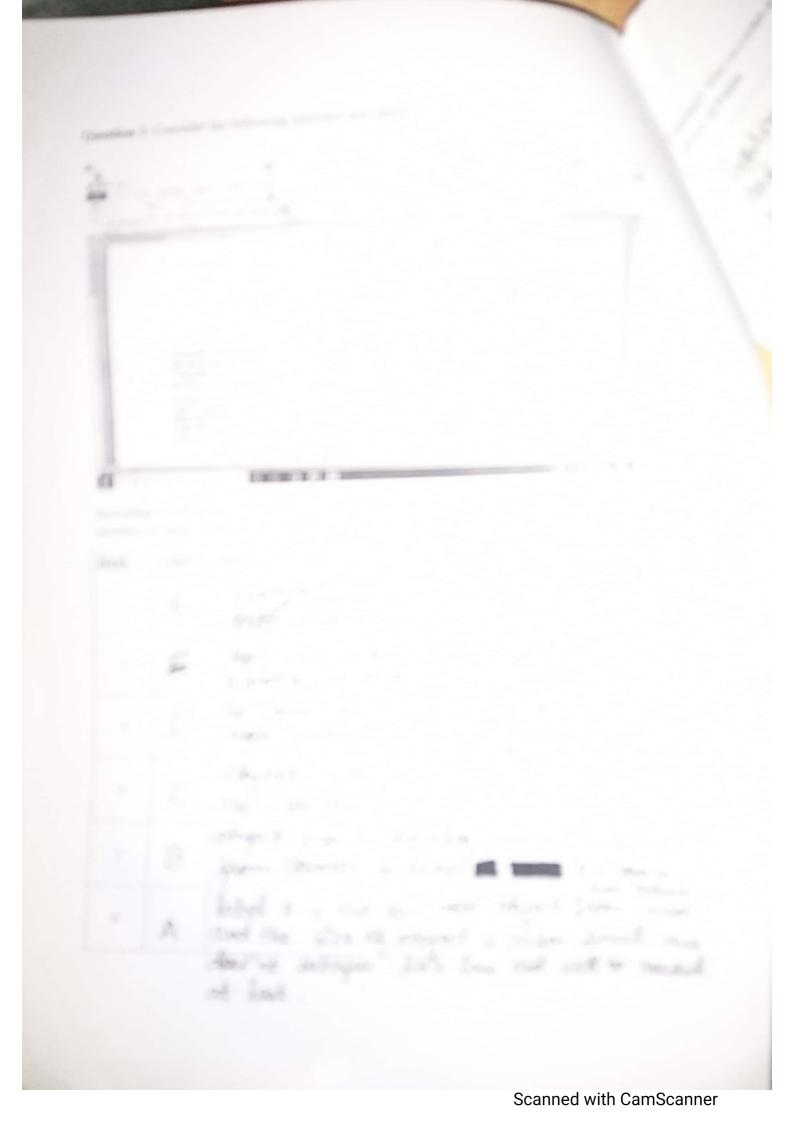
Question 1. What input and output devices would you use for the following systems? For each, compare and contrast alternatives, and if appropriate indicate why the conventional keyboard, mouse and CRT screen may be less suitable. (3 x 4 Points)

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

Input Device1: Processer	
Voice recognition to interpret input from be blind and normal users.	oth
Input Device2:	
Symbol and Action recognizer	
Output Device1:	
Speakers can be used to convey the data to blind.	
Output Device2:	
ouput Device2.	

(b) Tourist information system Input Device1: Fingerprint scanner 1/2 Input Device2: Facial recognition Output Device1: For tourists authenticity Output Device2: (c) Air traffic control system Input Device1: Elights logistics hardler Input Device2: Transmitting device Output Device1: To marage and locate blight details Receiver Polot and scheduling of flights route.

(d) Worldwide personal communications system	
Input Device1:	
Telephone	
Input Device2:	
letters, telegrams	
Output Device1:	
Output Device2:	



options. (4 Points)

System designer can implement an efficient and ultra fast system to keep the user informed and could store churks of memory that can be retrieved faster in nor time.

Extra storage hardware

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 design? (2 Points)

Things to knows:

Keys which are frequently used could be placed close to each other.

Access to keys must be in no time.

User friendly keyboard.

RGB lights keyboard for keys to be prominent and easy to use.