

(4)

Roll number:

HCI-Section A

Q1: Explain cocktail party concept (3)

?

Q2: Write an example of retroactive interference (3)

?

Q2: Which one of these is a good reason to include sounds in an HCI? (1)

- a. Users react more quickly to sounds than to visual signals
- b. Users react more slowly to sounds than to visual signals
- c. There is no preference. People just like sounds
- d. The computer reacts to sounds in the same way as a human

✓

Q4: Mention which type of reasoning is this (1)

- If it is Friday then she will go to work
- It is Friday
- Therefore, she will go to work

deductive

✓

Q5: Write any two characteristics of human to be considered when creating interface (2)

- ① ^{Humans} ~~users~~ react & respond to audios/sounds faster than any written text.
- ② ~~users~~ Humans ~~are~~ cannot read more than 7 to 9 options at 1 time. (5 ± 2)

2

How Do You Control Google Glasses? / How do the Google glasses work?(3)

- It is an optical head-mounted device fit with laser, and contain features such as 1.2 GHz processor, 8GB storage, 2 GB RAM and input/output features.
- ✓ By simply swiping up or down the right side of glasses, you can tap to select something.

What do you know about VR Mind Reading Headset?(3)

- It converts neural signals to actual commands.
- It works in 4 parts: tagging the neural object, sensing electrical signals, decoding neural focus by algorithms and finally activating/executing command.
- ✓ It can be used in gaming as well as in medical to treat mental illnesses.

List any two Key Features of Google Glass?(2)

- 1.2 GHz processor
- 5G Technology
- ✓ GPS

Do you think Google Home Voice controller is a useful device? If yes, then, for what purpose you will use it and how Google Home Voice controller has made interaction easier for you? If no, then give reasons to support your argument.(5)

- Yes. It is useful for
- Interaction is made easy because we can simply use voice command to get tasks completed.
 - Streaming music wirelessly from the internet.
 - Smartly controlling all appliances around the house to dim lights, control appliances, etc.
 - Security systems can be linked to it.
 - It can act as a digital assistant e.g. we can command it to search the weather etc, solve math problem and more.
- ↓
which saves time.
- We have discussed 10 devices in class i.e Amazon Dash Button, Google Home Voice Controller, Smart doors and Doorbell Cam, Kuri Mobile Robot, Haptic gloves, Smart glasses/google glasses, Smart mirrors, smart irrigation, Eye gaze system, VR Mind Reading and 3D Mouse.

Which one you liked the most and why? And how that device would be helpful and meaningful for you in your daily life interactions?(5)

Smart Mirror

It has 2 very useful types

- ① Multipurpose: which displays temperature, weather, and also comes equipped with anti-fogging feature in bathrooms.

- ② wardrobe: It saves time in trying multiple clothes to see which looks best. Also, it gives us personalised recommendation based on what will fit us best. Some mirrors also aid us if we have any health issue, it is identified.