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Unit 4 - Week 1: Vision

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Course outline

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Week 1: Vision

- Introduction
- The Human Eye
- Gestalt Perception
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- Reading
- Quiz : Assignment 1
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- New Lesson

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Assignment 1

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. **Due on 2019-03-13, 23:59 IST.**

10 Myths of Multimodal Interaction

Read the Paper "Ten Myths of Multimodal Interaction" by Sharon Oviatt

Link to the paper: <https://tubcloud.tu-berlin.de/s/miCKOazcJogeffR>

Put-that-there scenario

Watch the video: <https://www.youtube.com/watch?v=sC5Zg0fU2e8>

CARE properties in the put-that-there scenario

1) Watch again the scene from 1:35 to 1:40 in the put-that-there video (moving of the yellow ship). Which of the care properties applies to this scene? **1 point**

- Assignment
- Complementarity
- Redundancy
- Equivalence

No, the answer is incorrect.
Score: 0

Accepted Answers:
Complementarity

2) Oviatt shows in the discussion of Myth #4 that speech is not always the primary input mode in any multimodal system including it. Is this conclusion supported by the put-that-there scenario? **1 point**

- Yes
- No

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Multimodal Interactions (non verbal signs)

Week 3: Multimodal Input Systems

Week 3: Multimodal Output Systems

Week 4: Multimodal Interactive Systems Development

Week 4: Virtual Environments

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TRANSCRIPTION

3) Select the sensory channel(s) that is used for touch : **1 point**

- Haptic channel
- Visual channel
- Auditory channel
- Vestibular channels

No, the answer is incorrect.

Score: 0

Accepted Answers:

Haptic channel

4) Which media is used for the visual channel? **1 point**

- Air
- Light

No, the answer is incorrect.

Score: 0

Accepted Answers:

Light

5) Where does the frequency-to-place transformation takes place in human hearing? **1 point**

- outer ear
- inner ear
- brain
- eardrum

No, the answer is incorrect.

Score: 0

Accepted Answers:

inner ear

6) Which statement is correct for the human hearing threshold? **1 point**

- It decreases with age
- It is independent from age
- It increases with age

No, the answer is incorrect.

Score: 0

Accepted Answers:

It increases with age

7) Which statement is true for the glottis? **1 point**

- It forms the phonemes
- It is the filter in the source-filter theory
- It is the smallest phonetic unit of speech
- It determines the fundamental frequency

No, the answer is incorrect.

Score: 0

Accepted Answers:

It determines the fundamental frequency

- 8) A – diotic, B – monotonic, C – dichotic 1 point
 A – dichotic, B – diotic, C – monotonic
 A – monotonic, B – diotic, C – dichotic
 A – diotic, B – dichotic, C – monotonic




No, the answer is incorrect.

Score: 0

Accepted Answers:

A – monotonic, B – diotic, C – dichotic

- 9) Select the correct statement about cones and rods. 1 point

- Cones are mostly concentrated *outside the fovea*, while rods are mostly *in the fovea* 
 Cones are mostly concentrated *in the fovea*, while rods are mostly *outside the fovea* 
 Both, cones and rods are mostly *outside the fovea* 
 Both, cones and rods are mostly *in the fovea*

No, the answer is incorrect.

Score: 0

Accepted Answers:

Cones are mostly concentrated in the fovea, while rods are mostly outside the fovea

- 10) How many million Ganglion cells are in the human retina. Enter the correct value using one decimal place.

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 1.4,1.8

- 11) In which cases is the excitation state of an ON-center Ganglion cell *inhibition*? 1 point

- Completely dark
 Center in light, outer area dark
 Outer area light, center dark
 Completely in light

No, the answer is incorrect.

Score: 0

Accepted Answers:

Completely dark

Outer area light, center dark

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