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NPTEL

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Courses » Virtual Reality Engineering

Announcements

Course

Ask a Question

Progress

Unit 3 - Week 1

Course outline

How to access the portal

Week 0 - Self Assessment

Week 1

- Course mechanics
- Goals and VR definitions
- Historical perspective
- Birds-eye view (general)
- Birds-eye view (general), contd
- Birds-eye view (hardware)
- Birds-eye view (software)
- Birds-eye view (sensation and perception)
- Quiz : Assignment 1
- Week 1 Feedback

Week 2

Week 3

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Assignment 1

The due date for submitting this assignment has passed. **Due on 2018-02-05, 23:59 IST.**

Submitted assignment

1) Pick out the correct Virtual reality definition from the following options- 1 point

- Virtual reality is an artificial environment that is created with software and presented to the user in such a way that the user suspends belief and accepts it as a real environment.
- Inducing targeted behaviour of an organization by using artificial sensory stimulation while the organism has little or no awareness of the interference.
- The computer-generated simulation of a three-dimensional image or environment that can be interacted with in a seemingly real or physical way by a person using special electronic equipment, such as a helmet with a screen inside or gloves fitted with sensors.
- All of the Above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the Above

2) What is the Degree of freedom for eyes (left or right, anyone) 1 point

- 9
- 6
- 8
- 7

No, the answer is incorrect.

Score: 0

Accepted Answers:

9

3) What is the Degree of freedom for ears (left or right, anyone) 1 point

- 5
- 6
- 7
- 9

No, the answer is incorrect.

Score: 0

Accepted Answers:

6

4) Which one of the following is not a visual display? 1 point

- LCD Screen

Week 9

Week 10

Week 11

Week 12

DOWNLOAD
VIDEOS

- Projectors
- speaker
- Head Mounted Display

No, the answer is incorrect.

Score: 0

Accepted Answers:

speaker

5) Select the audio display among the following-

1 point

- Keyboard
- Speaker
- Light field displays
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Speaker

6) What is the Stimulus for Vision?

1 point

- Electromagnetic energy in visual spectrum
- Air Pressure
- Touch
- None of the Above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Electromagnetic energy in visual spectrum

7) What is the receptors of vision?

1 point

- Photoreceptors on the retina
- Sensors present on the skin
- Eye lenses
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Photoreceptors on the retina

8) What is the engineering equivalent for touch?

1 point

- Pressure Sensors
- Thermometers
- Force sensors
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

9) What is Steven's power law?

1 point

- $p=cM^x$
- $p=cM^{2x}$
- $p=cM^{\sqrt{x}}$
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

$\rho = cM^x$

103D angular velocity is measured by

1 point

- Accelerometer
- Gyroscope
- Magnetometer
- None of the Above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Gyroscope

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