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NPTEL

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Courses » Virtual Reality Engineering

Announcements

Course

Ask a Question

Progress

Unit 12 - Week 10

Course outline

How to access the portal

Week 0 - Self Assessment

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Physics and Physiology

Auditory perception

Auditory localization

Rendering

Spatialization and display

Combining other senses

Quiz : Week 9 - Assignment 1

Week 10 Feedback : Virtual Reality Engineering

Week 11

Week 9 - Assignment 1

The due date for submitting this assignment has passed. **Due on 2018-04-04, 23:59 IST.**

Submitted assignment

Questions on Audio

1) Auditory localization is based on:

1 point

- i. Slightly different arrival times of the sound between the two ears
- ii. Slightly different loudness of the sound between the two ears
- iii. Slightly different pitch of the sound between the two ears
- iv. Different objects producing sound at different times

- i and ii only
- i, ii and iii only
- iii only
- iii and iv only

No, the answer is incorrect.

Score: 0

Accepted Answers:

i and ii only

2) The amplitude of a sound wave determines the

1 point

- Pitch
- Loudness
- Duration
- Distance

No, the answer is incorrect.

Score: 0

Accepted Answers:

Loudness

3) Tarun is hearing a ringing bell sound which is called _____, and then he interprets that the sound is his alarm clock which is called _____ **1 point**

- Perception & sensory adaptation
- Sensory adaptation & perception
- Perception & sensation
- Sensation & Perception

No, the answer is incorrect.

Score: 0

Accepted Answers:

Sensation & Perception

4) Tiny bones in ear which transmits vibrations to the inner ear _____

1 point

Week 12

DOWNLOAD
VIDEOS

- Middle canals
- Ventricles
- Ossicles
- Tympana

No, the answer is incorrect.

Score: 0

Accepted Answers:

Ossicles

5) Tarun has misplaced his cell phone, and he asked a friend to call him so he can hear its high-**1 point** pitched, musical ring. Assuming the ringer is on and is loud enough to hear, what would tell his brain that the phone is somewhere directly to his left?

- The pitch of the ring sounds slightly higher in his left ear
- The ringer sounds slightly louder in his left ear than his right ear
- The bass notes of the ring sounds slightly higher in his left ear
- He hear the ring in his left ear but not on right

No, the answer is incorrect.

Score: 0

Accepted Answers:

The ringer sounds slightly louder in his left ear than his right ear

6) The reason for the scenario given in question 5 is :

1 point

- Interaural level difference
- Ear Anatomy of individual person
- Interaural time difference

No, the answer is incorrect.

Score: 0

Accepted Answers:

Interaural time difference

7) Pick the correct answers:

1 point

- i. HRTF is a function used in acoustics, for sound localization.
- ii. HRTF is a function of four variables: three space coordinates and frequency
- iii. HRTF is unique for each individual
- iv. Reverberation is the collection of all the reflected sounds in an open space
- v. Reverberation time is the time required for the sound to decay from one millionth of the original power

- i,ii and iv only
- i, ii, iii and v only
- i and v only
- i and iv only

No, the answer is incorrect.

Score: 0

Accepted Answers:

i, ii, iii and v only

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