

Exercises for Systems Neuroscience ,

One 0, 1 or more answers are correct.

1. The cochlea

is contained in the organ of Corti

is made of four distinct chambers

is filled with air

is part of the middle ear

2. The basilar membrane

is thinner at one end than at the other

vibrates at locations that vary when the sound's timber varies

has larger amplitude modulations for low than for high intensity sounds

contains only outer hair cells

3. The pitch of a sound

can vary if the sound intensity is varied

is the main perceptual correlate of a pure tone's phase

is mostly determined by a sound's frequency

increases if the sound's wavelength decreases

4. Primary auditory cortex

is located in the temporal lobes

has a columnar organization

is surrounded by secondary auditory areas

receives inputs from the contralateral Medial Geniculate Nucleus

5. Sound localization

is possible without binaural cues

is computed primarily in circuits of the cerebellum

is possible with interaural time differences in the order of microseconds

can be affected by changing the shape of your pinnae