

# PNS-Physiology

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Archive

Lecture 6

Vestibular apparatus

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1. Stimulation of the crista ampullaris results in?

- a. Deafness
- b. Loud sounds
- c. Feeling of rotatory motion
- d. A sense of body position

Answer: c

2. Which one of the following statements is CORRECT:

- a-Macula utriculi is the auditory organ of the inner ear
- b-The tectorial membrane is made of protein and calcium carbonate
- c-The inner and outer hair cells enclose the tunnel of Corti
- d-The bony labyrinth includes the membranous labyrinth and the perilymph
- e-Each inner ear has 3 crista ampullaris to sense linear acceleration movement of head

Answer: d

3. Which of the following regarding Crista ampullaris is WRONG:

- a-Sensory organ of rotation
- b-Contains type I and type II sensory hair cells
- c-The hair cells have several kinocilia of graded height
- e-Is bathed in endolymph
- d-Its Cupula devoid of calcium carbonate

Answer: c

4. Which of the following cells in the inner ear are involved in detecting movements of the head? a-Hair cells in Maculae b-Outer pillar cells c-Inner pillar cells d-Cells of Hensen e-Hair cells in organ of Corti

Answer: a

5) Which one detect angular acceleration:

- a-Macula
- B-Utricle
- C-Saccule
- D-Semicircular canal
- E-Otoconia

Answer: D

6) Which structure of the vestibular system mainly detects vertical linear acceleration?

- A. Utricle
- B. Saccule
- C. Semicircular canals
- D. Cochlea

Answer: B.

7) Which of the following structures function as sensory receptors in the vestibular system?

- A. Basilar membrane and tectorial membrane
- B. Macula of utricle and crista ampullaris
- C. Scala vestibuli and scala tympani
- D. Organ of Corti and spiral ligament

Answer : B