

**M. Sc. (Audiology) (2018 Course) Sem – I : SUMMER - 2019**

**SUBJECT : COCHLEAR PHYSIOLOGY**

**Day** : Saturday  
**Date** : 25/05/2019

**S-2019-3978**

**Time** : 10.00 AM TO 01.00 PM  
**Max. Marks** : 80

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Draw diagrams **WHEREVER** necessary.
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Q.1 Attempt **ANY FOUR** out of **six**.

**(4 x 15 = 60 marks)**

- a) Discuss the effect of advancing age on cochlea.
- b) Explain sensory transduction in cochlea.
- c) Compare anatomy and physiology of OHC and IHC.
- d) Discuss the origin of otoacoustic emissions.
- e) Write a note on receptor potentials of cochlea and their measurement.
- f) Discuss various techniques to study hair cell and basilar membrane physiology.

Q.2 Attempt **ANY FOUR** out of **six**.

**(4 x 5 = 20 marks)**

- a) Cochlear non-linearity
- b) Efferent control of hair cells
- c) Suppression of TEOAEs
- d) Blood supply to cochlea
- e) Interpretation and clinical application of ECoChG.
- f) Phylogenetic development of cochlea

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