

MASTER OF SCIENCE (AUDIOLOGY)
M.Sc. (AUDIOLOGY) Sem-I : WINTER :- 2021
SUBJECT: COCHLEAR PHYSIOLOGY

Day : Friday
Date 01-Apr-2022

W-19535-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 80

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt **ANY FOUR** out of **SIX**:

[4 × 15 = 60]

- a) Describe and critically evaluate travelling wave theory.
- b) Describe micro and macro anatomy of cochlea.
- c) Discuss nonlinearity in cochlear responses.
- d) Describe the classification of otoacoustic emissions based on mechanism of generation.
- e) Write an essay on endocochlear potentials.
- f) Discuss the effect of advancing age on cochlea.

Q.2 Attempt **ANY FOUR** out of **SIX**:

[4 × 5 = 20]

- a) Efferent innervation of cochlea
- b) Clinical applications of electrocochleography
- c) Stereocilia
- d) Cochlear proteins
- e) Cochlear regeneration
- f) Endolymph

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