

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

Day : Tuesday
Date 05-Apr-2022

W-19536-2021

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 labelled diagrams **WHEREVER** necessary.
-

Q.1 Attempt any **FOUR** out of **SIX**: **(60)**

- a) Explain anatomy of cochlear nucleus, superior olivary complex and lateral lemniscus.
- b) Discuss the plasticity of auditory cortex and its implications.
- c) Explain coding of simple and complex signals at the auditory nerve.
- d) Role of sub-cortical structure in the sound localization.
- e) Explain the tonotopic organisation of auditory brainstem.
- f) Discuss functioning of the auditory efferent system and its role in hearing.

Q.2 Attempt any **FOUR** short notes out of **SIX**: **(20)**

- a) Action potential
- b) Medial and lateral Olivo-cochlear bundle
- c) Role of the auditory cortex in sound localization
- d) Neurotransmitters
- e) Anatomy of the auditory nerve
- f) Coding of signal in cochlear nucleus

* * *