

MASTER OF SCIENCE (AUDIOLOGY)
M.Sc. (AUDIOLOGY) Sem-I :SUMMER- 2022
SUBJECT : NEUROPHYSIOLOGY OF HEARING

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 19-09-2022

S-19536-2022

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

- a) Explain the tonotopic organization at the level of auditory brainstem.
- b) Write an essay on cochlear nucleus and superior olivary complex and its projections in the central auditory system.
- c) Describe association of the auditory cortex with other structures.
- d) Explain coding of simple and complex signal in the auditory nerve.
- e) Discuss the efferent auditory pathway and role of efferent auditory system in hearing.
- f) Discuss anatomy of the auditory cortex and its role in the sound localization.

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

- a) Anatomy of the medial geniculate body
- b) Plasticity of the auditory cortex
- c) Role of subcortical structures in sound localization
- d) Coding of signal in the inferior colliculus
- e) Action potentials
- f) Neuromodulators

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