

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0523]

MAY 2023

Sub. Code: 2804

**M.Sc. AUDIOLOGY DEGREE EXAMINATION
FIRST SEMESTER (From 2021-2022 onwards)
PAPER IV – NEUROPHYSIOLOGY OF HEARING**

Q.P. Code: 282804

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2x20=40)

1. Explain the coding of frequency and intensity in the auditory nerve.
2. Explain the anatomy of auditory cortex with the neat diagram.

II. Write notes on:

(10x6=60)

1. Role of sub cortical structures in sound localization.
2. Neuromodulators of the auditory systems.
3. Role of auditory efferent system and hearing.
4. Plasticity of the auditory cortex.
5. Tonotopic organization in the auditory cortex.
6. Anatomy of superior olivary complex with the neat diagram.
7. Describe the different types of responses seen in the cochlear nucleus cells.
8. Types of synapses seen in the auditory system.
9. Compare and contrast MSO and LSO Fibers.
10. Anatomy of MGB with neat diagram.
