

M. Sc. (Audiology) Sem-I (2018 Course): WINTER – 2018
SUBJECT: NEUROPHYSIOLOGY OF HEARING

Day: Monday
Date: 10/12/2018

W-2018-3701

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

N.B.

- 1) All questions are compulsory
 - 2) The number to the right indicates full marks.
 - 3) Draw diagrams wherever necessary.
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Q.1 Attempt any **FOUR** out of six **(60)**

- a) Explain the efferent auditory pathway in detail. Elaborate on its role in hearing
- b) Explain the anatomy and tonotopicity of the auditory cortex.
- c) Write an essay on Superior Olivary Complex and its projections in the central auditory system.
- d) Explain the tonotopic organization at auditory brainstem.
- e) Explain coding of simple stimulus at the auditory nerve
- f) Explain the anatomy of Cochlear Nucleus, Superior Olivary Complex and Lateral Lemniscus.

Q.2 Attempt any **FOUR** out of six **(20)**

- a) Describe anatomy of Medial Geniculate Body.
- b) Explain anatomy of auditory nerve with appropriate diagrams.
- c) Write a short note on Neurotransmitters and Neuromodulators
- d) Explain role of subcortical structures in sound localization.
- e) Explain plasticity of auditory cortex
- f) Write a note on protective function of efferent auditory system.

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