

Question Paper

Exam Date & Time: 23-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. IN AUDIOLOGY DEGREE EXAMINATION - APRIL 2022
SUBJECT: MAU 605 - NEUROPHYSIOLOGY OF HEARING
(2018 SCHEME)

Answer ALL questions.

Marks: 100

Duration: 180 mins.

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| 1) | Explain action potential and its characteristics in detail. | (20) |
| 2) | Explain frequency, intensity and temporal coding at the level of the auditory cortex. | (20) |
| 3A) | Explain the role of SOC in hearing. | (10) |
| 3B) | Types of auditory efferent system and its protective mechanism. | (10) |
| 3C) | Explain tonotopicity, cellular organization and anatomy of cochlear nucleus with a neat diagram. | (10) |
| 3D) | Elaborate the function of neurotransmitters and neuromodulators in the auditory system. | (10) |
| 4A) | Place coding. | (5) |
| 4B) | Speech coding in auditory nerve. | (5) |
| 4C) | Anatomy of internal auditory meatus. | (5) |
| 4D) | Secondary auditory cortex. | (5) |

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