Question Paper

Exam Date & Time: 27-Jan-2023 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. AUDIOLOGY DEGREE EXAMINATION - JANUARY 2023
SUBJECT: AUD5102- COCHLEAR PHYSIOLOGY
(2021 SCHEME)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1)	With a neat diagram, explain the structures in the Organ of Corti. Add a note on its function.	(20)
2)	Discuss cochlear regeneration with reference from published studies.	(20)
3)	Discuss the mechanism generating endocochlear potential. Add a note on the role played by intermediate cells in stria vascularis.	(20)
4)	Describe the classification of OAEs based on taxonomies. Add a note on the factors affecting OAEs.	(20)

5) **Write short notes on:**

5A)	Mechanism of OHC motility	(5)
5B)	Ipsilateral & contralateral suppression of OAEs	(5)
5C)	Cochlear microphonics	(5)
5D)	Basilar membrane mechanics & nonlinearity	(5)

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Question Paper

Exam Date & Time: 30-Jan-2023 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. (AUDIOLOGY) DEGREE EXAMINATION - JANUARY 2023
SUBJECT: AUD5103 - NEUROPHYSIOLOGY OF HEARING
(2021 SCHEME)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1)	With neat diagram explain coding of complex stimulus in the auditory nerve	(20)
2)	Explain the physiology of SOC in detail with reference to binaural integration.	(20)
3)	Explain the role of cochlear nucleus in hearing	(10)
4)	Explain the physiology of efferent auditory system	(10)
5)	Explain cellular organization and anatomy of cochlear nucleus with a neat diagram.	(10)
6)	Elaborate the physiology of IC.	(10)
7A)	Rate coding	(5)
7B)	Synaptic vesicles	(5)
7C)	Anatomy of internal auditory meatus	(5)
7D)	Parallel processing in auditory cortex	(5)

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