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

**[AHS 1023]** **OCTOBER 2023** **Sub. Code: 2813**

**M.Sc. AUDIOLOGY**
**SECOND SEMESTER (From 2021-2022 onwards)**
**PAPER III – ELECTROPHYSIOLOGICAL ASSESSMENT**

***Q.P. Code: 282813***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

**I. Elaborate on:** **(2x20=40)**

1. What are the various signal processing technique used in recording of AEPs?

2. Justify the selection of appropriate ABR Protocol to test infants.

**II. Write notes on:** **(10x6=60)**

1. AMLR has gained limited importance in clinical audiology, Justify.
2. ABR as the tool to detect acoustic neuroma.
3. Clinical application of LLR.
4. Chained stimulus in ABR.
5. Elaborate on the clinical and forensic utilities of endogenous potentials.
6. Electroneuronography.
7. Acoustic change complex.
8. Describe the different types of electrodes used for recording AEPs.
9. Discuss the effect of modulation frequency and carrier frequency on ASSR.
10. Dipole orientation.

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

**[AHS 0524]** **MAY 2024** **Sub. Code: 2813**

**M.Sc. AUDIOLOGY**
**SECOND SEMESTER (From 2021-2022 onwards)**
**PAPER III – ELECTROPHYSIOLOGICAL ASSESSMENT**

***Q.P. Code: 282813***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

**I. Elaborate on:** **(2x20=40)**

1. Discuss the exogenous and endogenous cortical potentials.

2. Discuss the Neuroanatomy and neurophysiology related to Auditory evoked potentials.

**II. Write notes on:** **(10x6=60)**

1. Electroneuronography.
2. Mismatch negativity.
3. Post auricular muscle response.
4. Stacked ABR.
5. Electrodes for recording auditory evoked potentials.
6. Acquisition and analysis of ASSR.
7. Different stimulus used for acquisition of auditory brainstem response.
8. Dipole orientation and distribution of auditory evoked potentials.
9. Factors influencing ASSR.
10. Guidelines for intraoperative monitoring.

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

**[AHS 1024]** **OCTOBER 2024** **Sub. Code: 2813**

**M.Sc. AUDIOLOGY**
**SECOND SEMESTER (From 2021-2022 onwards)**
**PAPER III – ELECTROPHYSIOLOGICAL ASSESSMENT**

***Q.P. Code: 282813***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

**I. Elaborate on:** **(2x20=40)**

1. Discuss the different types of stimulus used in auditory evoked potentials and its clinical relevance.

2. Explain the calibration procedure for Brain stem evoked response audiometry.

**II. Write notes on:** **(10x6=60)**

1. Assessment protocol for auditory neuropathy.
2. Acoustic change complex.
3. Post auricular muscle response.
4. Chirp stimulus.
5. Electrodes for recording auditory evoked potentials.
6. Acquisition and analysis of ASSR.
7. Factors affecting auditory brainstem response.
8. Dipole orientation and distribution of auditory evoked potentials.
9. ASSR in auditory neuropathy.
10. Guidelines for intraoperative monitoring.

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

**[AHS 1025]** **OCTOBER 2025** **Sub. Code: 2813**

**M.Sc. AUDIOLOGY**
**SECOND SEMESTER (From 2021-2022 onwards)**
**PAPER III – ELECTROPHYSIOLOGICAL ASSESSMENT**

***Q.P. Code: 282813***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

**I. Elaborate on:** **(2x20=40)**

1. General principles of recording AEPs.

2. Protocol for threshold estimation and site of lesion in ABR.

**II. Write notes on:** **(10x6=60)**

1. Dipole orientation.
2. Maintenance and Calibration of instrumentation.
3. Electrodes for recording AEPs.
4. New trends in ABR.
5. Factors influencing middle latency responses.
6. Acquisition and analysis of auditory steady state response (ASSR).
7. Application of P300 and its merits and demerits.
8. Factors affecting exogenous and endogenous evoked potentials.
9. Advantage and disadvantage of physiological tests in intra-operative monitoring of auditory function.
10. Advantages of modulation frequency in ASSR.

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