

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

**[AHS 1022]**

**OCTOBER 2022**

**Sub. Code:2802**

**M.Sc. AUDIOLOGY  
FIRST SEMESTER (From 2021-2022 onwards)  
PAPER II – TECHNOLOGY IN AUDIOLOGY**

*Q.P. Code: 282802*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2x20=40)**

1. Elaborate the Principles of Neuro Imaging Techniques MRI, CT, PET, SPECT Interpretation and clinical implications.
2. Elaborate Tele technology definition, applications, technology, resources.

**II. Write notes on:**

**(10x6=60)**

1. Principles and methods of digital signal processing.
2. Transducers and signal generation.
3. Distance learning – multimedia meeting.
4. MATLAB, Adobe Audition, PRAAT Software packages and clinical application in Hearing Diagnostics.
5. Calibration and Maintenance of Audiological equipment.
6. Speech Processing and Synthesis models.
7. Basic principles of cepstral analysis, filtering low time, high time.
8. Working principles of EEG and evoked potential.
9. Technology available for intra-operative monitoring of sensory and motor functions.
10. Auditorium Acoustics

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