

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2335

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - I (Regulation 2017-2018)
PAPER V – ELECTRONICS AND ACOUSTICS
Q.P NO. 802335**

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on :

(2X10=20)

1. Explain generation, propagation and characteristics of pure tones in detail with neat diagram.
2. Explain construction of audiometric rooms and maximum permission noise limits of these rooms.

II. Write Notes on :

(8X5=40)

1. Transformers.
2. Light emitting diodes.
3. Impedance and admittance.
4. Types and functions of microphones.
5. Linear predictive analysis of speech signal.
6. Speech recognition systems.
7. Evoked potential systems.
8. Characteristics of Puretone signal.

III. Short Answers on :

(5X3=15)

1. Logic gates.
2. Fourier analysis.
3. Components of loudspeaker.
4. Wavelength of low and high frequency sounds.
5. Inductors.
