

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
FIRST YEAR
PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS WITH
HEARING IMPAIRMENTS I**

Q.P. Code: 802304

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Digital Signal Processing and its applications.
2. Working of Cathode Ray Oscilloscopes with a neat diagram.
3. Group amplification systems used in classroom of a hearing impaired.

II. Write notes on:

(8 x 5 = 40)

1. Troubleshooting of BTE hearing aids.
2. Working of Automatic Gain control circuit.
3. Difference between AC and DC.
4. Explain Sampling and Quantization.
5. What is frequency counter and sine wave generator?
6. Steps involved in ear mold impression.
7. Magnetic tape recording.
8. Historical development of hearing aids.

III. Short answers on:

(10 x 3 = 30)

1. Integrated sound level meter.
2. DC power supply.
3. Total Harmonic Distortion (THD).
4. Parts of a coupler.
5. What is Automatic Gain Control?
6. Explain Differential amplifier/amplification.
7. What are the ways to reduce the aliasing error during sampling?
8. Working of telecoil.
9. Compression knee point.
10. Explain about horn speaker.
