

**BACHELOR IN 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. Explain different types of group amplification system with advantages and disadvantages.
3. Write in detail about various components of hearing aid with neat diagram.

II. Write notes on:

(8 x 5 = 40)

1. What are baffles and enclosures?
2. What are the different types of microphone?
3. What is sound level meter and explain?
4. Steps involved in taking ear impression.
5. Trouble shooting of hearing aids.
6. Explain loudspeaker characteristics.
7. Working of cathode ray oscilloscope with neat diagram.
8. Historical development of hearing aids.

III. Short answers on:

(10 x 3 = 30)

1. What are the ways to reduce the aliasing error during sampling?
2. Compression knee point.
3. Frequency counter.
4. Attack time and release time of a hearing aid.
5. Write about tweeters and horns.
6. What is diode?
7. What is telecoil in the hearing aids?
8. What is the importance of harness?
9. Custom hearing aids.
10. Write about multispeaker system.