

Q P Code: 125015

Reg. No.....

**First Semester BASLP Degree Regular/Supplementary Examinations
April 2024**

Electronics and Acoustics

Time: 3 Hours

Max Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays

(4x10=40)

1. What do you mean by frequency response of a filter. Draw the frequency response of a low pass, high pass, band pass and notch filter.
2. Explain the concept of gain and bandwidth of an amplifier. Explain the need for a pre amplifier and power amplifier in a hearing aid circuit.
3. List the characteristics of a microphone used for measurement of sound. With diagram, illustrate its structure and principle of operation.
4. Explain tele rehabilitation. Illustrate with a diagram how will you implement a tele rehabilitation system to provide speech therapy to a client sitting in Delhi.

Short Notes

(5x5=25)

5. With a block diagram explain the measurement of sound pressure level.
6. Analog signal and digital signal.
7. Electronic component used as volume control in hearing aid.
8. Procedure for recording sound using computer.
9. Speech spectrograph.

Answer Briefly

(5x2=10)

10. Speech to noise ratio.
11. Flip-flop.
12. WWW (World Wide Web).
13. Hearing aids.
14. Frequency response of an amplifier.
