

**Q P Code: 125015**

**Reg. No.....**

**First Semester BASLP Degree Regular/Supplementary Examinations  
December 2022**

**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. With supporting diagrams, illustrate different types of UPS. Compare the advantages and limitations of each.
2. With block diagram explain how analog signal is converted into digital form in DSP. State and explain the advantages of digital signal processing over analog signal processing.
3. Explain with a block diagram the working of sound level meter and draw the response of A, B & C weighting networks. Also explain what is the significance of these networks in SLM.
4. Explain the working of digital hearing aid with the help of a block diagram. Compare and contrast the technologies of analog and digital hearing aids.

**Short Notes**

**(5x5=25)**

5. Servo controlled voltage stabilizers
6. Differences between RAM and ROM in the working of computerized audiometer
7. Equal loudness contour
8. Application of DSP in communication sciences
9. Immittance meter

**Answer Briefly**

**(5x2=10)**

10. Importance of grounding in the instruments
11. Logic gates
12. Waveform and spectrum
13. Function of mother board in a computer
14. ALD (Assistive Listening Devices)

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