

Q.P.Code: 104015

Reg. No.:.....

First Year BASLP Degree Supplementary Examinations - March 2016

BIOMEDICAL INSTRUMENTATION AND ACOUSTICS

Time : 3 hrs

Max marks : 80

- Answer all questions
- Draw diagram wherever necessary

Essays

(4x10=40)

1. Explain the nature and propagation of sound. Explain frequency, pitch, amplitude and intensity characteristics of sound
2. Explain the calibration of audiometers using a neat diagram
3. With a neat diagram Explain the characteristics and working of Uni Junction Transistor
4. Explain the safety aspects, care and preventive maintenance of biomedical instruments

Short notes

(5x5=25)

5. Preamplifiers
6. Transducers
7. Trouble shooting of hearing aids
8. Sound level meter
9. Sone and phone

Answer briefly

(5x3=15)

10. Oscillators
11. Memory devices
12. bit and byte
13. Types of microphone
14. Absorption coefficient.
