

Q.P.Code: 1415

Reg. No.:..... .

First Year BASLP Degree Supplementary Examinations - April 2012

BIOMEDICAL INSTRUMENTATION AND ACOUSTICS

Time: 3 hrs

Max marks :80

- Answer all questions
- Draw diagram wherever necessary

Essays

(4x10=40)

1. Explain the working of P-N junction diode with neat diagrams.
2. Draw and explain the working of carbon and piezoelectric microphones.
3. Draw and explain the block diagram of a computer.
4. Explain audiometers, with necessary diagrams.

Short notes

(5x5=25)

5. SMPS
6. Absorption coefficient and Sabine's formula
7. Loudspeakers
8. Filters
9. Advantages of DSP

Answer briefly

(5x3=15)

10. Potentiometers
11. Reverberation
12. Pitch
13. Transducers
14. FIR systems
