

**Third Year B.Sc MLT Degree Supplementary Examinations, April 2015**

**ELECTRONICS, COMPUTER SCIENCE & BIOMEDICAL INSTRUMENTATION  
TECHNOLOGY**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Explain AC rectification using full wave rectifier. Also explain about a biological amplifier. (5+5=10)
2. What is an ECG recorder. Explain the working of ECG recorder . Explain the need of ventilators. (2+5+3=10)

**Short notes**

**(10x5=50)**

3. Hot air oven
4. Centrifuge
5. Standard tests for syphilis
6. Color doppler
7. Sigmoidoscope
8. GM counter
9. Collimator
- 10.Campylobacter
- 11.Haemodialysis
- 12.Colorimeter

**Answer briefly**

**(10x3=30)**

- 13.Zener diode applications
- 14.WAN
- 15.CRO
- 16.Pressure transducer
- 17.Surgical diathermy
- 18.Spirometer
- 19.Puretone audiometer
- 20.Finger tip pulse oximeter
- 21.Evoked potential
- 22.Incubator