

Third Year B.Sc MLT Degree Examinations, November 2013

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

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. What is amplification. Explain the working of CE and CB configurations of amplifiers. (2+4+4=10)
2. Explain about different types dialysis. With a neat block diagram explain the working of haemodialysis machine (5+5=10)

Short notes

(10x5=50)

3. Applications of computers in medical laboratory
4. PN junction diode
5. Spectrophotometer
6. EEG recorder
7. Ventilators
8. SPECT
9. Audiometer
10. Blood gas analyzer
11. Endoscopes
12. Color doppler

Answer briefly

(10x3=30)

13. Input and output devices
14. Deep freezer
15. Hot air oven
16. Surgical diathermy
17. Evoked potential recording
18. Photomultiplier tube
19. Laser applications in medicine
20. Colorimeter
21. Spirometer
22. Pacemaker