

Third Year B.Sc MLT Degree Supplementary Examinations, May 2014

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

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Explain in detail about the working of half-wave and full- wave (Centre tap and bridge) rectifiers. (3+3+4=10)
2. Explain the working principle of transmission and reflection oximetry (5+5=10)

Short notes

(10x5=50)

3. CRO
4. LAN and WAN
5. ECG machine
6. Audiometer
7. CT scan
8. Gamma camera
9. Pacemaker
10. Spectrometer
11. Blood gas analyzer
12. Laser application in medicine

Answer briefly

(10x3=30)

13. Operating system
14. LED and LCD display
15. Pressure transducer
16. Centrifuge
17. Nebulizer
18. Ecocardiography
19. Hearing aid
20. Dialyzer
21. Endoscopes
22. Angiography