

Third Year B.Sc MLT Degree Supplementary Examinations, April 2016

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

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Discuss the components of computers. Explain the applications of computers in medical laboratory (5+5=10)
2. Explain the working of cyclotron and MRI. (5+5=10)

Short notes

(10x5=50)

3. Pressure transducer
4. Surgical diathermy
5. Spirometer
6. ECG monitor
7. Digital subtraction angiography
8. Transmission oximetry
9. Sigmoidoscope
10. Ionization detector
11. Collimator
12. Peritoneal dialysis

Answer briefly

(10x3=30)

13. Differential amplifier
14. Incubator
15. Refrigerator
16. Laser application in medicine
17. Suction apparatus
18. Tread mill ECG
19. Fiber optics
20. GM counter
21. PET
22. Pulse height analyzer