

**Third Year B.Sc MLT Degree Supplementary Examinations October 2023**  
**Electronics, Computer Science & Biomedical Instrumentation Technology**  
**(2010 & 2015 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers • Draw diagrams wherever necessary

**Essay****(2x10=20)**

1. (a) ECG recorders (b) Single channel, multichannel recorders  
(c) Tread mill test (d) Cardiac defibrillator
2. (a) Computers (b) Components of computer  
(c) Hard ware and soft wares (d) Memory classifications  
(e) Operating system

**Short notes****(10x5=50)**

3. Zener diode and its applications
4. Hot air oven
5. Centrifuge
6. Electronic weighing scale
7. ECG machine
8. Surgical diathermy
9. Suction apparatus
10. MRI Scan
11. Color Doppler
12. Photo multiplier tube

**Answer briefly****(10x3=30)**

13. WAN and LAN
14. Ionization detector
15. Spectrophotometer
16. Cathode ray oscilloscope
17. LCD display
18. Heart lung Machine
19. Heating Mantle
20. EEG recorder
21. Endoscope
22. Blood gas Analyzer