

**Third Year B.Sc MLT Degree Regular/Supplementary Examinations
April 2024**

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. Explain in detailed about the application and working principle of laboratory equipment – refrigerator, walk in cooler, hot air oven and centrifuge.
2. Explain in detail about the Audiometer. Also explain the types of audiometry – Speech and Bekesy audiometer.

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

3. Half wave rectifier
4. ECG monitor
5. Ventilators
6. Blood gas analyzer
7. LED & LCD display
8. Pacemaker
9. Cardiac defibrillator
10. Peritoneal dialysis
11. Applications of computers in laboratory
12. CT scanner

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

13. ECG abnormalities
14. Humidifier
15. Spirometer
16. Electrodes
17. Sigmoidoscopy
18. Infusion pump
19. Scintillation detectors
20. Fiber optics
21. Heart lung machine
22. Amplifiers