

Third Year B.Sc MLT Degree Supplementary Examinations May 2018

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

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Explain the working of common emitter (CE) amplifier. Plot the load line for the configuration (7+3)
2. Detail the role of OS (operating systems) in the functioning of a computer. List out the applications of computers in medical laboratory (5+5)

Short notes

(10x5=50)

3. LED and LCD display
4. Zener diode
5. Types of memory
6. Multi meter
7. EEG recorder
8. Spirometer
9. Principle of color doppler
10. Dialysis machine
11. Characteristics of silicon diode
12. Deep freezer

Answer briefly

(10x3=30)

13. Rectification
14. Voltage and current gain
15. Computer networking
16. Laser application in medicine
17. Humidifier
18. Hot air oven
19. Evoked potential
20. Radioactivity
21. Blood gas analyzer
22. Equipment calibration