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Third Year B.Sc MLT Degree Supplementary Examinations April (November), 2020

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. Plot and explain the working of half wave and full wave rectifier. (5+5)

 Discuss the principle of Nuclear Magnetic Resonance (NMR). Explain how NMR is used in MRI machine (5+5)

Short notes (10x5=50)

- 3. Differential amplifier
- 4. Frequency response of an amplifier
- 5. Input and output devices for computer
- 6. Heating mantle
- 7. Spectrophotometer
- 8. Diathermy unit
- 9. Suction pump
- 10. Scintillation detector
- 11.SPECT
- 12.LAN

Answer briefly (10x3=30)

- 13. Walk-in cooler
- 14. Centrifuge
- 15. Cardiac defibrillator
- 16. Multi parameter monitor
- 17. Heart lung machine
- 18. Blood gas analyzer
- 19. Characteristics of Zener diode
- 20. Echocardiography
- 21. Endoscope
- 22. Optical fiber
