

Register No.:

1988

April 2025

*Time – Three hours*  
(Maximum Marks: 100)

- [N.B.
1. Answer all questions under Part-A. Each question carries 3 marks.
  2. Answer all the questions either (a) or (b) in Part-B. Each question carries 14 marks.]

PART – A

1. Define bio electric potential.
2. State the function of blood flow meter.
3. Define audio meter.
4. What is ERG?
5. State the function of programmable pacemaker.
6. State the need of ventilators.
7. Mention any three applications of telemedicine.
8. What is macro shock?
9. Write any three properties of X-rays.
10. What is meant by angiography?

[Turn over.....

PART – B

11. (a) Discuss about the various types of electrodes.  
(Or)  
(b) Explain the measurement of pH value of various body fluids.
12. (a) Explain the operation of ECG recorder with neat diagram.  
(Or)  
(b) Describe the function of 10-20 EEG lead system with diagrams.
13. (a) Describe the operation of Heart-Lung machine with neat diagram.  
(Or)  
(b) Discuss the operation of lithotripsy procedure with block diagram.
14. (a) Describe the multichannel telemetry system with a block diagram.  
(Or)  
(b) Discuss about the safety aspects in burns and explosion hazard.
15. (a) Explain the working of Magnetic Resonance Imaging (MRI) scanner.  
(Or)  
(b) Describe the operation of ND-Yag laser with a diagram.

-----