

Register No.:

299

April 2024

*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. What is resting potential?
2. What is blood PH?
3. Draw the ECG waveform.
4. Mention the types of audiometer.
5. List the classifications of pacemaker.
6. List the differences between hemodialysis and peritonealdialysis.
7. What is lithotripsy?
8. What are therapeutic UV lamps?
9. What is humidifier?
10. What are implantable infusion systems?

[Turn over.....

PART – B

11. (a) Explain the direct and indirect method of blood pressure measurement.

(Or)

- (b) Discuss about the respiration rate measurement.

12. (a) Explain 10-20 lead system of EEG and clinical uses of EEG waves with necessary diagrams.

(Or)

- (b) What is conduction velocity? Explain how you can measure it with the help of EMG machine.

13. (a) What do you mean by Defibrillator? Explain the working of AC defibrillator with necessary diagrams.

(Or)

- (b) Explain the working of heart lung machine with a neat sketch.

14. (a) Write short notes on:  
(i) Short wave diathermy  
(ii) Micro wave diathermy

(Or)

- (b) Explain the working of Nd-Yag Laser with a neat block diagram. Also list the applications of lasers in medicine.

15. (a) Discuss about ventilator and its types.

(Or)

- (b) Write short notes on:  
(i) Cryogenic equipment.  
(ii) Automated drug delivery system.

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