

789

October 2023

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 electrode? How is it classified?
2. List out the methods of measuring heart rate.
3. How many leads are in ECG lead system? What are they?
4. What are the Clinical uses of audiometers?
5. What are the processes involved in dialysis?
6. What are the types of Ventilator?
7. What are the applications of bio-telemetry system?
8. What are the precautions made to minimize electric shock hazards?
9. What do you mean by LASER beam? List its properties.
10. Write about angiography.

[Turn over.....

PART - B

11. (a) (i) Explain the various types of Micro electrodes.(7)
(ii) Draw the structure a Cell and state the function of each part of it.(7)
(Or)
- (b) What do you mean by Auto analyzer? Why we need it in patient care? Explain the working of it.
12. (a) Draw the various types of EEG waves. With neat block diagram explain the working of EEG recorder.
(Or)
- (b) Draw the structure of EMG wave and explain its clinical uses. State the methods of recording EMG action potential.
13. (a) With a neat sketch, describe the working of heart lung machine.
(Or)
- (b) Explain the working of Lithotripter with a block diagram.
14. (a) Explain the physiological effects of commercial (50Hz) low frequency current.
(Or)
- (b) Explain the working of Ground Fault Interrupter.
15. (a) Explain the block diagram of Nd-Yag Laser.
(Or)
- (b) Explain the working of Pulse eco system.
