

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain Heart lung Machine With Diagram.

Q.24 Explain IABP in details with diagram.

Q.25 Explain need of Defibrillator. Explain Defibrillator with circuit diagram.

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Roll No.

223245

4th Sem / Medical Electronics

Subject : Biomedical Instrumentation - II

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which is called Natural Pacemaker ?

- a) Aorta
- b) SA Node
- c) AV Node
- d) Bundle of HIS

Q.2 Which of the following is not an ICU equipment

- a) Pulse oximeter
- b) Patient Monitor
- c) Thermometer
- d) X-ray machine

Q.3 Minute volume is concerns for

- a) ECG
- b) Ventilator
- c) Ultrasound
- d) None of the above

- Q.4 Defibrillator is used for
- Bone density measurement
 - HB measurement
 - Electric shock delivery
 - None of above
- Q.5 Which is not a blood component ?
- RBC
 - Platelets
 - Neuron
 - Plasma
- Q.6 Respiration rate of a healthy person in resting state should be :-
- 50-100 breaths/minute
 - 12-20 breaths/minute
 - 0-60 breaths/minute
 - None of the above
- SECTION-B**
- Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)
- Q.7 What is normal range of percentage of SPO₂ ?
- Q.8 What is Tidal Volume ?
- Q.9 What is Respiration Rate
- Q.10 Nebulizer
- Q.11 What is the Normal Glucose level in fasting stage of a healthy person ?
- Q.12 Expand ICCU

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Write a note on Prosthetics & Orthotics.
- Explain the working of Syringe Pump.
- Write a short note on Critical care instrumentation.
- Explain IABP in details.
- Write a brief description on NICU Equipments.
- What is OT Table. Explain it with diagram.
- Explain Tread mill Test.
- Explain BiPAP.
- Write a note on surgical OT Light.
- Explain different modes of artificial ventilation.