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Roll No.

223245

4th Sem.
Branch : Medical Electronics
Sub. Biomedical Instrumentation-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 Which of the following is an Radiology equipment.

- a) Pulse oximeter
- b) Ventilator
- c) MRI
- d) None of the above

Q.2 “Tidal Volume” is concerns for

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

Q.3 The term “Limb” concerns for

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

Q.4 Which is a blood component?

- a) Artery
- b) Platelets
- c) Neuron
- d) Vein

Q.5 Respiration rate of a healthy person in resting state should be:

- a) 10-80 breaths/min
- b) 0-40 breaths/min
- c) 12-20 breaths/min
- d) None of the above

Q.6 Which is a part of Anesthesia ventilation system

- a) Breathing circuit
- b) Gas supply system
- c) Scavenging system
- d) All of the above

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory.
(6x1=6)

Q.7 Cardiac cycle.

Q.8 Fibrillation

Q.9 Catheterization.

Q.10 Expand IABP.

Q.11 Electro-Surgery.

Q.12 Expand SIMV.

SECTION-C

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

Q.13 List various cardiac care instruments with their importance.

Q.14 Explain Defibrillator & its electrodes.

Q.15 Discuss need of Cardiac Pacemaker.

Q.16 Explain IABP.

Q.17 Write a note on Operating Room Instrumentation.

Q.18 Explain Electrosurgical units.

Q.19 Explain construction & working of Suction Pump.

Q.20 Write a note on different ventilation modes.

Q.21 Explain TMT Machine with diagram.

Q.22 Explain Audiometers & its classifications?

SECTION-D

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

Q.23 Explain Anesthesia work station with diagram.

Q.24 Explain Heart-Lung Machine with diagram.

Q.25 Explain Operation theatre surgical lights with diagram.