

- Q.24 Write a note on Operating room instrumentation
 Q.25 Explain suction apparatus in details.
 Q.26 What is OT Table. Explain it with diagram.
 Q.27 Explain working and general fault finding in syringe pump
 Q.28 Explain the need and classification of pacemaker.
 Q.29 Explain single channel telemetry system
 Q.30 Write a note on cardiac catheterization.
 Q.31 Explain telemedicine & its application.
 Q.32 Write a note on artificial heart.
 Q.33 Write a note on surgical OT Light.
 Q.34 Explain PEEP.
 Q.35 Write a note on mechanics of breathing.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain IABP in details with diagram.
 Q.37 Explain need of Defibrillator. Explain Defibrillator with circuit diagram.
 Q.38 Explain need of Anesthesia. Explain Anesthesia work station in details.

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4th Sem / Med. Eltx.
Subject:- Biomedical Instrumentation - II/ Biomed.
Instrumentation

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- 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:-

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand NICU
 - Q.12 Expand CPAP
 - Q.13 Telemetry
 - Q.14 Expand IBP
 - Q.15 What is Residual volume
 - Q.16 Humidifier
 - Q.17 What is the Normal Glucose level in fasting stage of a healthy person?
 - Q.18 What is total lung capacity?
 - Q.19 What is normal range of percentage of SPO₂?
 - Q.20 What is Minute Volume?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write a note on critical care instrumentation.

Q.22 Enlist different equipments used in ICU.

Q.23 Write a note on Monitoring alarm & electric system in ICU.