

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 List and explain the parts of pulse oximeter and also list the common defects or complaints of pulse oximeter.
- Q.4 Describe the functioning of dialysis machine and also explain the different parts of dialysis Machine.
- Q.5 Explain the different parts of slit lamp.
- Q.6 Explain the working principle operating procedure and common complaints of boyle's apparatus.
- Q.7 Write short notes on following :
- a) Colposcopy
 - b) Foetal Doppler

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Roll No.

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6th Sem. / Med. Eltx.

Subject : Bio Medical Instrumentation

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Right atria
 - b) Pulse rate
 - c) Sinus node
 - d) Diaphragm
 - e) Dialysis
 - f) Adult ventilator
 - g) Montage
 - h) Temporal lobe
 - i) Surface Electrode
 - j) Sensitivity

- k) Photosensor
- l) Eardrum
- m) Dental chair
- n) SpO_2
- o) Pacemaker
- p) Refracting period
- q) Transmitter
- r) Echocardiogram.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Explain systolic blood pressure.
 - ii) List the four common defects or complaints of ECG machine.
 - iii) Differentiate between bipolar recording and monopolar recording of EEG machine.
 - iv) Why is common or indifference point used for EEG recording.

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- v) Name the equipment used for testing speech and hearing.
- vi) What are the functions of radiant warmer?
- vii) Explain the operating procedure of pulse oximeter.
- viii) List the equipment used for testing eye functions and surgery.
- ix) Name the various parameter that can be measured by multi parameter monitor.
- x) What is the function of isolated pre amplifier in ECG machine?
- xi) What do you understand by signal cord?
- xii) Explain what do you mean by "reference electrode"?
- xiii) What are the differences in amplification and bandwidth requirement of amplifier for ECG and EEG?
- xiv) Explain what is visual impairment?
- xv) Explain the basic concept of incubator?

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