

SECTION-D

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

- Q.23 Explain the types of hospital equipment in brief.
Q.24 Explain EMG with Block Diagram.
Q.25 Explain Biomedical Electrodes with types.

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2nd Sem. / Medical Electronics

Subject : Fundamentals of Medical Electronics

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 a preferred electrode for measuring ECG?
- a) Surface electrodes b) Needle electrodes
 - c) Pregelled electrodes d) Scalp electrodes
- Q.2 Which type of transducer is not requires energy to be put into it in order to translate changes due to the measurand?
- a) active transducers
 - b) passive transducers
 - c) powered transducers
 - d) local transducers

- Q.3 CR stands for _____
- Common Radiography
 - Cathode Radiography
 - Cathode Radiology
 - Computed Radiography
- Q.4 How much blood is present in an average adult?
- 10-12 L
 - 2-3 L
 - 5-6 L
 - 20-25 L
- Q.5 The material used in Surface electrode is _____
- German silver
 - Copper
 - Gold
 - Platinum
- Q.6 In medical recorders, the signal processing is _____
- Digital
 - Analog
 - Both a and b
 - None of these

SECTION-B

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

- Q.7 What is Distortion?

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- Q.8 _____ material is used in Piezoelectric Transducer.
- Q.9 EEG stands for _____
- Q.10 What is full form of BME?
- Q.11 What is Sensor?
- Q.12 LVDT stands for _____

SECTION-C

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

- Q.13 Explain Departments of hospital.
- Q.14 What is Digital signal processing?
- Q.15 What is principle of LVDT?
- Q.16 What is Transducer and its types?
- Q.17 What is Biomedical organization?
- Q.18 What is Transducer and its types?
- Q.19 What is needle Electrode?
- Q.20 Explain EMG.
- Q.21 What is noise and its parameters?
- Q.22 Explain EEG.

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