

SECTION-D

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

Q.23 What is Biomedical Engineering? Explain roles of Biomedical Engineer in Healthcare Sector.

Q.24 Explain EEG with Block Diagram.

Q.25 Explain Biomedical Electrodes in brief.

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2nd Sem / Medical Electronics

Subject : Fund. of Medical Electronics

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The material used in limb surface electrode is _____

- a) German silver b) Copper
- c) Gold d) Platinum

Q.2 Recording electrical activities associated with heart is known as _____

- a) EEG b) EOG
- c) EMG d) ECG

Q.3 Active transducers work on the principle of _____

- a) energy conversion b) mass conversion
- c) energy alteration d) volume conversion

Q.4 Optical fiber sensors are electrically _____

- a) active
- b) passive
- c) active as well as passive
- d) cannot be determined

Q.5 Before placing the electrodes the skin should be _____

- a) wet b) dry
- c) hairy d) oily

Q.6 How many kidneys does a human have?

- a) one b) two
- c) three d) four

SECTION-B

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

Q.7 BME stands for _____

Q.8 What is sensor?

Q.9 What is Electrode?

Q.10 What is Signal?

Q.11 What is Full form of LVDT?

Q.12 ECG Stands for _____

SECTION-C

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

Q.13 What is bioelectric signal?

Q.14 What is Digital signal processing?

Q.15 What is digital recorders?

Q.16 Explain Departments of hospital.

Q.17 Explain ECG.

Q.18 What is Transducer and its types?

Q.19 What is needle Electrode?

Q.20 Explain EMG

Q.21 What is principle of Piezoelectric Transducer?

Q.22 What is optical fibre Cable?