

No. of Printed Pages : 4
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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 The material used in micro electrode is _____
a) German silver b) Copper
c) Gold d) Platinum
- Q.2 Recording electrical activities associated with Brain is known as _____
a) EEG b) EOG
c) EMG d) ECG
- Q.3 Passive transducers work on the principle of _____
a) energy conversion b) mass conversion
c) energy alteration d) volume conversion

Q.4 LVDT are electrically _____

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

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

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

Q.6 How many Pancreas 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 ECG stands for _____

Q.8 What is Transducer?

Q.9 What is Micro Electrode?

Q.10 What is Digital Signal?

Q.11 What is Photodiode?

Q.12 DSP Stands for _____

SECTION-C

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

Q.13 What is optical fibre Communication?

Q.14 What is principle of Piezoelectric Transducer?

Q.15 What is microelectrodes?

Q.16 Explain ECG.

Q.17 Write direct writing recorders?

Q.18 What is digital recorder?

Q.19 What is principle of Active Transducer?

Q.20 Explain Electromyograph?

Q.21 What is optical fibre sensor?

Q.22 What is bioelectric signal?

SECTION-D

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

Q.23 Explain roles of Biomedical Engineer in Healthcare Sector.

Q.24 Explain EMG with Block Diagram

Q.25 Explain Transducers in brief.