

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.

No. of Printed Pages : 4

Roll No.

223221

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

(80)

(4)

223221

(1)

223221

Q.3 CR stands for _____

- a) Common Radiography
- b) Cathode Radiography
- c) Cathode Radiology
- d) Computed Radiography

Q.4 How much blood is present in an average adult?

- a) 10-12 L
- b) 2-3 L
- c) 5-6 L
- d) 20-25 L

Q.5 The material used in Surface electrode is _____

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

Q.6 In medical recorders, the signal processing is _____

- a) Digital
- b) Analog
- c) Both a and b
- d) None of these

SECTION-B

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

Q.7 What is Distortion?

(2)

223221

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.

(3)

223221