

S. B. Roll. No.....

MEDICAL ELECTRONICS
6th Exam/ECE/4616/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Give answer in one line.

15x1=15

- a. Give one example of therapeutic equipments.
- b. Define anatomy
- c. Write any one temperature transducer.
- d. Give full form of LVDT.
- e. MRI stands for?
- f. What are microelectrodes?
- g. Give one example of Diagnostic equipments.
- h. Define Let go current.
- i. ECG stands for?
- j. EEG stands for?
- k. What is the nature of body surface electrodes?
- l. Define Action potential.
- m. What is Heart rate?
- n. Define Pacemaker.
- o. What is gross shock?

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Define and classify medical equipments.
- ii. Explain method to measure blood pressure.
- iii. Define electrodes and classify on the basis of applications.
- iv. What information can be gained from the ECG machine?
- v. Draw and explain body surface electrodes.
- vi. Explain magnetic blood flow meters with diagram.
- vii. What are the advantages of thermocouples?

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. What is Pressure Sensor? Draw and explain any of pressure transducer.
- b. Explain ECG machine with the help of block diagram.
- c. What is Pacemaker? Explain construction and working of pacemaker.
- d. Explain Special designs of equipments from safety consideration
- e. Write Short note on i) Therapeutic equipments ii) Pulse sensor iii) Advantages of EEG machine