

S.B. Roll No.....

MEDICAL ELECTRONICS
6th Exam/ECE/4616/Jan'2022
(FOR 2018 BATCH ONWARDS)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

5x3=15

- i. What conditions may be diagnosed with an ECG?
- ii. Explain Gross current shock.
- iii. Classify electrodes on the basis of electrode action.
- iv. Define and classify medical equipments.
- v. What is Pressure transducer? Explain any one of them.
- vi. Explain the operation of Sphygmomanometer.
- vii. Explain in detail one of the applications of diagnostic equipment.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain construction and operation of Pace maker.
- b. Draw and explain the block diagram of EEG machine in detail.
- c. Explain the following:
 - i. Micro current shock
 - ii. Safety standards of Medical Instrument
- d. Write a short notes on the following :
 - i. Electrode tissue interface
 - ii. EMG machine
 - iii. Pulse sensor
 - iv. Defibrillator