Reg. No. :

## Question Paper Code : X60529

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020 Fifth/Sixth/Seventh Semester Electrical and Electronics Engineering EI 2311/EI 65/10133 EI 606 – BIOMEDICAL INSTRUMENTATION (Common to Instrumentation and Control Engineering and Electronics and Instrumentation Engineering) (Regulations 2008/2010) (Also Common to PTEI 2311 – Biomedical Instrumentation for B.E. (Part-Time) Sixth Semester – EEE – Regulations 2009)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

## $\mathrm{PART}-\mathrm{A}$

(10×2=20 Marks)

- 1. What are resting and action potentials ?
- 2. What is a neuron ? Define the various parameters associated with it.
- 3. List any four types of electrodes ion bio signal measurements.
- 4. What are the various hazards due to leakage current?
- 5. List the normal heart rate of human being according to age group.
- 6. What is pulmonary circulation ?
- 7. What is the principle of CT?
- 8. List few applications of ultra sonography.
- 9. What is meant by fulguration ?
- 10. What is a stimulator ?

## PART – B

(5×16=80 Marks)

11. a) List the cell components and their functions.

(OR)

b) What are the difficulties in measuring living system ? Explain in detail.

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