

## Question Bank - BME

- ① Explain various field of biomedical engineering.
- ② Different types of tissue present in body.
- ③ Briefly write different structure of nervous system.
- ④ Explain bioinstrumentation system with block diagram.
- ⑤ Write the details of opamp with its ideal characteristics.
- ⑥ Design an instrumentation amplifier with diagram.
- ⑦ Generation of ECG signal.
- ⑧ What is EEG signal, with its frequency band.
- ⑨ Different types of electrodes with applications.
- ⑩ Biosensors & its applications.
- ⑪ Biosensor with schematic diagram.
- ⑫ ECG electrode system (Einthoven triangle).
- ⑬ 10-20% electrode system of EEG.
- ⑭ Describe X-ray system with block diagram.
- ⑮ Describe CT scan / MRI / <sup>US</sup> system with block diagram.
- ⑯ various electrical hazards & safety issues in medical equipments.

→ Basic principle, block diagram & applications