

**UNIT I**  
**ELECTRO-PHYSIOLOGY AND BIO-POTENTIAL RECORDING**

**1. What is the source of bioelectric signals?**

The living tissues used as a power station generating multiple electrical signals with 2 internal sources namely muscles and nerves.

**2. What are the basic bioelectrical signals parameters used and what is its frequency range?**

- ⌚ Electrocardiography (ECG) 0.05 to 120 Hz
- ⌚ Electroencephalography (EEG) 0.1 to 100 Hz
- ⌚ Electromyography (EMG) 5 to 2000 Hz

**3. What is meant by ECG, EEG and EMG?**

- ⌚ The recording of the electrical activity associated with the functioning of the heart is a electrocardiogram.
- ⌚ The recording of the electrical activity associated with the functioning of the brain is a electroencephalogram.
- ⌚ The recording of the electrical activity associated with the functioning of the skeletal muscles is a electromyogram.

**4. What are the types of electrodes?**

- ⌚ Microelectrodes
- ⌚ Depth and needle electrodes
- ⌚ Surface electrodes.

**5. What are the types of microelectrodes?**

- ⌚ Metallic microelectrode
- ⌚ Nonmetallic or micropipette.

**6. What are the needs of the electrodes?**

- ⌚ Electrodes make a transfer from the ionic conduction in the tissue to the electronic conduction which is necessary for making measurement.
- ⌚ Electrodes play an important part in the satisfactory recording of bioelectric signals and their choice requires careful consideration.

**7. Define VCG:**

Vectrocardiography is the technique of analyzing the electrical activity of the heart by obtaining ECG's along three axes at right angles to one another and displaying any two of these ECGs as a vector display on an X, Y oscilloscope. This display is known as a vector cardiogram.

**8. Define PCG:**

- ⌚ The Phonocardiograph is an instrument used for recording the sounds connected with the pumping action of the heart.
- ⌚ These sounds provide an indication of the heart rate and its rhythm city.

# Ec2021 Medical Electronics 2 Marks With Answers All Units

**E. J. Bukstein**



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Questions & Answers about Medical Electronics Edward J. Bukstein,1973      **Technician Medical Electronics** Manoj Dole,2018-12-13 Technician Medical Electronics is a simple e Book for ITI Engineering Course Technician Medical Electronics First Second Year Sem 1 2 3 4 Revised Syllabus in 2018 It contains objective questions with underlined bold correct answers MCQ covering all topics including all about safety and environment use of fire extinguishers basics of electricity Estimate assemble install and test wiring system in hospital CSSD department biomedical devices different batteries used in electronics applications Physiotherapy Equipments medical gas plant operation digital circuit different Bio medical sensors wire test various sensors by selecting appropriate test instruments SMPS UPS inverter and battery charger fibre optic communication techniques CCTV system 8085 micro processor system storage oscilloscope ICU department functions 8051 micro controller kit dental chair dental x ray different imaging equipments used in hospitals role of bio medical engineer and lots more      *Questions and Answer about Medical Electronics* E. J. Bukstein,1970      **Medical Electronics** Rakesh Kumar,2008-01-01

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