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Medical Electronics

Important 13mark questions

Unit I

1. Discuss the genesis of ECG and explain the working of an ECG machine with suitable block diagram along with its various lead configurations.
2. Discuss the different types of surface electrodes and its applications.

Unit II

1. Explain the international standard 12 lead system used to record ECG.
2. With suitable diagram describe how ultra sound principles are used in measuring the flow of blood.

Unit III

1. With a neat diagram, illustrate the working of D.C defibrillator.
2. Explain the heart lung machine with neat block diagram and discuss about the different types of oxygenators.

Unit IV

1. Explain the working of a biotelemetry system with sub-carrier.
2. Explain the simplified circuit diagram of a microwave diathermy machine.

Unit V

1. What is endoscope? Explain the different types of operations performed using endoscopy.
2. Explain the different types of LASER.