

1. Write a note on any five human Physiological parameters.
2. Explain the working of human heart with a neat diagram.
3. Explain short sight and long sight conditions and formation of images under normal, short sight and long sight conditions in a human eye ball.
4. Explain the construction of Coolidge tube and the production of X-Rays.
5. What are the safety measures to be taken in computed tomography scanning?
6. Explain Compton scattering and photo electric effect.
7. Explain MRI system components with a schematic diagram.
8. What is Doppler Effect? Explain its application in medicine with a block diagram.
9. Explain the production of ultrasonic waves using piezoelectricity and magnetostriction with relevant diagrams.
10. Explain the interpretation of ECG signal with a diagram.
11. Explain electromyography (EMG), its procedure and precautions. Mention any two applications.
12. Discuss Electroencephalogram (EEG) in detail.
13. Write a note on Radiation safety.
14. Explain the principle and procedure of Proton Therapy.
15. What are radioactive tracers? Discuss their applications in medical field.