

**II B.Tech II Semester Supplementary Examinations,
November/December 2005
BASIC CLINICAL SCIENCES-I
(Bio-Medical Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. Describe the procedure of peritoneal dialysis with a suitable block diagram. [16]
2. Write a note on:
 - (a) Diseases of nervous system
 - (b) Diseases of muscle. [8+8]
3. (a) Explain the working principle of Angiography. [6]
(b) What is Tomography? [6]
(c) Explain the principle of CT. [6]
4. Sketch and explain the operation of Heart-Lung Machine. [16]
5. (a) Distinguish between Normal and Abnormal ECG.
(b) What part of ECG is most useful for determining the Heart Rate? Explain. [8+8]
6. Discuss the properties of ultrasound and how ultra sound can be used for diagnostics. [16]
7. Distinguish between Open Heart, By-pass Surgeries? [16]
8. Explain the anatomy and physiology of GI Tract. [16]
