

**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. Why dialyser analysis is required? What are the parameters to be analyzed and explain any two parameters in detail. [16]
2. Explain Electro Encephalography in detail. [16]
3. Describe in detail Neuromuscular Transmission and its disorders. [16]
4. (a) Explain the function(s) of Tricuspid, Aortic Valves.
(b) Explain the function(s) of Bicuspid, Pulmonary Valves. [8+8]
5. Write a note on: [16]
 - (a) CVP and
 - (b) SWAN Catheters
6. (a) Briefly explain Arterial and Ventricular Fibrillation.
(b) Discuss in a brief about CineAngiography. [8+8]
7. (a) Write a note on : Laproscopy.
(b) Explain about the Pre-Operative Preparative Process. [8+8]
8. (a) What are the functions of G.I.Tract. [6]
(b) What do you mean by Parenteral Thereapy? [6]
(c) Define Biopsy. [6]

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. Write a note on:

(a) Hemo Dialysis

(b) Peritoneal Dialysis [8+8]

2. (a) Explain the differences between a Motor Nerve and Sensory Nerve.

(b) What do you mean by Myastheviagravis? [8+8]

3. Describe in detail Neuromuscular Transmission and its disorders. [16]

4. Sketch and explain the operation of Heart-Lung Machine. [16]

5. Write a note on: [16]

(a) CVP and

(b) SWAN Catheters

6. Discuss the applications of ultra sound in medicine. [16]

7. Explain Laproscopy and its uses in various surgeries. [16]

8. Discuss about the Signs and Diseases of GI Tract. [16]

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. What is Dialysis? Explain the principle of Artificial Kidney. [16]
2. Explain Electro Encephalography in detail. [16]
3. (a) Discuss some possible uses of Electromyography. [6]
(b) What is meant by Spinal Reflex? [6]
(c) How Spinal Reflex is related to the functions of Brain? [6]
4. Sketch and explain the Cardiovascular System of Human Body. [16]
5. Discuss briefly the different Pacing Modes of operation. [16]
6. Discuss the properties of ultrasound and how ultra sound can be used for diagnostics. [16]
7. Explain Laproscopy and its uses in various surgeries. [16]
8. Discuss about the Signs and Diseases of GI Tract. [16]

**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. Why dialyser analysis is required? What are the parameters to be analyzed and explain any two parameters in detail. [16]
2. (a) Explain the differences between a Motor Nerve and Sensory Nerve.
(b) What do you mean by Myastheviagravis? [8+8]
3. Write a short note on: [16]
(a) Motor Neuron Disorders
(b) Study of Reflexes
4. Sketch and explain the Cardiac Cycle. [16]
5. Discuss briefly the different Pacing Modes of operation. [16]
6. What is Range Gated pulsed Doppler Ultrasound? Name at least two possible applications? [16]
7. Explain Laproscopy and its uses in various surgeries. [16]
8. Explain the anatomy and physiology of GI Tract. [16]
