

Code No: 07A41101

**R07**

**Set No. 2**

**II B.Tech II Semester Examinations, APRIL 2011**  
**BASIC CLINICAL SCIENCES**  
**Bio-Medical Engineering**

**Time: 3 hours**

**Max Marks: 80**

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

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1. Write short notes on the following:

- (a) residual renal function.
- (b) dialysis clearance.
- (c) Calculation of adequacy of Dialysis. [8+8]

2. (a) What is the role of Nervous system in human body?  
(b) State the differences between Sensory and Motor Nerves. [8+8]

3. What is Cerebral angiography/ arteriography? Why is it done? Explain procedure of it? [16]

4. Describe the various chambers of the heart and their valves. Discuss their functions during the cardiac cycle. [16]

5. (a) How do you analyze dialyser performance?  
(b) Explain the principle involved in Renal Transplantation. [8+8]

6. What is electro cautery? What is the basis of its functioning and discuss the working principle and applications in detail? [16]

7. Discuss the anatomy of the gastrointestinal tract. [16]

8. What is angioplasty? What are the different types of angioplasty? [16]

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**R07**

**Set No. 4**

**II B.Tech II Semester Examinations, APRIL 2011**  
**BASIC CLINICAL SCIENCES**  
**Bio-Medical Engineering**

**Time: 3 hours**

**Max Marks: 80**

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

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1. Discuss the anatomy of the gastrointestinal tract. [16]
2. Write short notes on the following:
  - (a) residual renal function.
  - (b) dialysis clearance.
  - (c) Calculation of adequacy of Dialysis. [8+8]
3. What is Cerebral angiography/ arteriography? Why is it done? Explain procedure of it? [16]
4. Describe the various chambers of the heart and their valves. Discuss their functions during the cardiac cycle. [16]
5. (a) What is the role of Nervous system in human body?  
(b) State the differences between Sensory and Motor Nerves. [8+8]
6. What is electro cautery? What is the basis of its functioning and discuss the working principle and applications in detail? [16]
7. (a) How do you analyze dialyser performance?  
(b) Explain the principle involved in Renal Transplantation. [8+8]
8. What is angioplasty? What are the different types of angioplasty? [16]

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**R07**

**Set No. 1**

**II B.Tech II Semester Examinations, APRIL 2011**  
**BASIC CLINICAL SCIENCES**  
**Bio-Medical Engineering**

**Time: 3 hours**

**Max Marks: 80**

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

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1. Describe the various chambers of the heart and their valves. Discuss their functions during the cardiac cycle. [16]
2. (a) How do you analyze dialyser performance?  
(b) Explain the principle involved in Renal Transplantation. [8+8]
3. What is Cerebral angiography/ arteriography? Why is it done? Explain procedure of it? [16]
4. What is angioplasty? What are the different types of angioplasty? [16]
5. Discuss the anatomy of the gastrointestinal tract. [16]
6. (a) What is the role of Nervous system in human body?  
(b) State the differences between Sensory and Motor Nerves. [8+8]
7. Write short notes on the following:  
(a) residual renal function.  
(b) dialysis clearance.  
(c) Calculation of adequacy of Dialysis. [8+8]
8. What is electro cautery? What is the basis of its functioning and discuss the working principle and applications in detail? [16]

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**R07**

**Set No. 3**

**II B.Tech II Semester Examinations, APRIL 2011**  
**BASIC CLINICAL SCIENCES**  
**Bio-Medical Engineering**

**Time: 3 hours**

**Max Marks: 80**

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

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1. What is electro cautery? What is the basis of its functioning and discuss the working principle and applications in detail? [16]
2. Describe the various chambers of the heart and their valves. Discuss their functions during the cardiac cycle. [16]
3. (a) How do you analyze dialyser performance?  
(b) Explain the principle involved in Renal Transplantation. [8+8]
4. What is angioplasty? What are the different types of angioplasty? [16]
5. Discuss the anatomy of the gastrointestinal tract. [16]
6. What is Cerebral angiography/ arteriography? Why is it done? Explain procedure of it? [16]
7. (a) What is the role of Nervous system in human body?  
(b) State the differences between Sensory and Motor Nerves. [8+8]
8. Write short notes on the following:  
(a) residual renal function.  
(b) dialysis clearance.  
(c) Calculation of adequacy of Dialysis. [8+8]

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