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2007 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

II B.TECH I SEMESTER REGULAR EXAMINATIONS  
**ANATOMY AND PHYSIOLOGY**  
(BIO-MEDICAL ENGINEERING)

SET NO -1  
NOVEMBER 2007

Time: 3 hours  
Marks: 80

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Answer any FIVE Questions  
All Questions carry equal marks

1. Write the short notes on

(a) Shoulder joint [8]

(b) Knee cap [8]

2. Describe the external anatomy of spinal cord in detail? Define Pia-meter? [16]

3. Write short notes on

(a) Pulse

(b) Blood Pressure [8+8]

4. Discuss about the lung volumes and capacities. What is pulmonary ventilation?  
[16]

5. Explain, how the thyroid hormones made, stored and secreted What are its physiological effects and clinical applications? [16]

6. Define digestion and describe the process involved in it? Distinguish between mechanical and chemical digestion? [16]

7. Write a short notes on:

(a) Lymph Nodes [8]

(b) Spleen [8]

8. Describe how the kidneys produce dilute and concentrated urine?