

II B.Tech I Semester(R05) Supplementary Examinations, May/June 2010  
ANATOMY AND PHYSIOLOGY  
(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 a motor unit? Explain the phases of Twitch contraction with muscle contraction? Specify the abnormal contractions of skeletal muscles? [16]
2. Describe the external anatomy of spinal cord in detail? Define Pia-meter? [16]
3. Discuss about the mechanical activity of heart? What are the components of conduction system of heart? [16]
4. Describe lungs and associated structures. Write on the organization of the lungs? [16]
5. Explain, how the thyroid hormones made, stored and secreted What are its physiological effects and clinical applications? [16]
6. How is bile secretion regulated? How is the bile juice collected and transported from the liver to the gall-bladder for storage? [16]
7. Discuss the relationship of immunology to cancer. Write short note on spleen. [16]
8. Write a short notes on  
(a) Renal failure  
(b) Nephron. [8+8]

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