

Code.No: 07A31101

R07

SET-1

II B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
ANATOMY AND PHYSIOLOGY
(BIO-MEDICAL ENGINEERING)

Time: 3hours**Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

- - -

1. Describe the main structural and functional characteristics of muscle tissue? Write about Process. [16]
2. Describe the external anatomy of spinal cord in detail? Define Pia – meter? [16]
3. Explain different phases of action potential of cardiac muscle fibre of heart? [16]
4. Explain pulmonary ventilation in detail and sketch the neat diagram of lungs and label it? [16]
5. What are glucocorticoids? Explain the regulation of secretion of these hormones and their biological actions. [16]
6. Describe the functions of liver. Role of Enterohepatic Circulation and bile salts in digestion, absorption and excretion of fat soluble substances. [16]
7. What is Monocyte – Macrophage system? Discuss its role in immunity. [16]
8. Write short notes:
 - a) Diffusion trapping.
 - b) U/P Values at various levels of tubules
 - c) Role of ADH in the concentration of urine.
 - d) Lag in equilibrium process. [16]

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