

II B.Tech. I Semester Supplementary Examinations, May -2005
ANATOMY AND PHYSIOLOGY
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain about the pelvic girdle?
2. Describe about the thyroid gland? What is hyper thyroidism?
3. What is neuroglia? List the principle types and functions? What is myelin sheath?
4. Differentiate between myelinated and unmyelinated neurons? Explain saltatory and continuous conduction.
5. Write about the major blood vessels? Discuss about Aorta?
6. Describe the development of reproductive systems.
7. Explain about the functions of the digestive system with a neat diagram?
8. Write a short notes on:
 - (a) Counter current concept
 - (b) Renal clearance.

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1. Which bones make up the axial and appendicular divisions of the skeleton?
2. Explain the working of endocrine regulatory system?
3. Write brief note on the following:
 - (a) Neurotransmitters
 - (b) Brainstem.
4. Describe the retinal processing of visual input and the neural pathway of light impulses to the brain.
5. Discuss about the mechanical activity of heart? What are the components of conduction system of heart?
6. Explain the physiology of a lung with a neat diagram.
7. Where is the pancreas located? Explain the functions the pancreatic Islets (Islets of langerhaus)?
8. Describe how the kidneys produce dilute and concentrated urine?

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1. Describe major muscles of upper limb with their actions?
2. What is a motor unit? Explain the phases of Twitch contraction with muscle contraction? Specify the abnormal contractions of skeletal muscles?
3. What is autonomic nervous system? Discuss its functions?
4. Describe the eyeball by drawing the section of eyeball. Write the mechanism of sight?
5. Write short notes on:
 - (a) Pulse
 - (b) Blood Pressure.
6. Explain the physiology of a lung with a neat diagram.
7. Describe the location and function of the gall-bladder? How is employing of the gall-bladder regulated?
8. Describe the renal physiology?

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1. Describe the appendicular skeletal system? Describe about Sulcus ?
2. Write short notes on:
 - (a) Thyroid gland
 - (b) Penial gland.
3. Explain Electroencephalogram in detail? Discuss about neurotransmitters.
4. Explain the anatomy and physiology of ear?
5. Describe the flow of blood through the chambers of the heart and through the systemic and pulmonary circulations?
6. Describe the development of reproductive systems.
7. What are the sub-division of the small intestine? How is small intestinal secretion regulated?
8. Explain the structure and functions of the urinary bladder with a neat diagram? What is a loop of Henle?
