Student Review Anatomy

1085 Final

Note: The following learning objectives are meant to represent a general overview of the Anatomy and Physiology Lab I (BSC 1085L) and by no means are to be used as an all inclusive study guide. Requisites for this course include all assigned readings, handouts, written assignments, movies and lectures as well as any extra projects. Students are responsible for all the assigned materials regardless of whether or not said materials have been specifically covered or addressed during class. As always, students with questions regarding assignments, whether covered in class or not, are welcome to come to my office during office hours, or by appointment, or may e-mail at: arodrigu@broward.edu their questions to me and I will respond in a timely manner.

PART I

I. pH
   pH measurements

II. The Microscope
   parts

III. Animal Cell Structure
   organelles
   illustration - lab manual: pages 34 & 527

   Mitosis - 4 major phases
   Animal cell models
   onion root tip slides

IV. Osmosis & Permeability
   Effects of isotonic, hypotonic, & hypertonic solutions on cells

V. Tissues - identify tissues, and identifying features
   A. Epithelial:
      simple squamous
      stratified squamous
      simple cuboidal
      stratified cuboidal
      simple columnar
      stratified columnar
      transitional

   B. Connective:
      adipose
      recticular
      areolar
      dense regular
      dense irregular
      hyaline cartilage
      bone

   C. Muscular
      human muscle comparison - skeletal, cardiac, smooth

VI. Anatomical Terminology - planes and directional terms.
PART II

I. The Skull – Complete Bone List from Lab Packet

Major structures
  e.g.  Sella turcica
        Lesser & greater wings of sphenoid bone

Sutures
  e.g.  Lambdoid
        Sagittal

Styloid Process
  e.g.  Foramen magnum
        Mental Foramen

II. Vertebral Column & Thorax

  Cervical
  Thoracic
  Lumbar
  Sternum
  Ribs

III. Appendicular Bones (including related structures) - Complete Bone List

  Skeleton- articulated/ disarticulated
    e.g. Radius
      - Head
      - Styloid Process

IV. Joints

  e.g.  Hinge
        Ball & Socket
        Symphysis

V. Major Muscles

  Arm model
  Leg model
  Human torso

VI. Nervous System

  Whole brain
  Sagittal section of brain
  Spinal cord model / C5 vertebra plaque
  Neuron Model

VII. Special Senses

  Ear Model
    gross structures
    e.g.  cochlea
    Eustachian tube

  Eye Model
    gross structures
    e.g.  iris
    cornea retina

Note: This list is not all inclusive