Study Objectives for BIOLOGY OF AGING: EXAM # 2

The student should be able to (From Chapters 3 & 4)

- 1. Discuss the major characteristics of the 4 tissue types: Epithelial, muscle, nerve, and connective. In your answer you should make sure that you know the different cell types that make up each of these tissues (i.e. squamous, columnar, cuboidal, smooth, skeletal, cardiac s-a node, purkinje fibers, left <u>vs</u> right heart, sensory, motor, cns, fibroblast, bone, blood, ligaments, tendons), their general functions and general characteristics.
- 2. Describe the 5 major senses and the major parts of each: taste (four tastes), smell, hearing (where are the nerve receptors for hearing), touch (types of recepotrs, i.e. heat, cold, pressure, pain), sight (rods and cones on retina).
- 3. Discuss the 3 parts of a nerve cell and what a synapse is. What is a nerve impulse, how is it made (depolarization, Na⁺⁺ and K⁺), and how does it get across the synapse? What is the myelin sheath?
- 4. Know what the hormones do and from which gland they come from in Table 4.1 on page 77.
- 5. Be able to describe how each of the above change with age (generally, not in any great specifics since that will come later).