Study Objections– Exam # 1

The student should be able to:

1. Discuss the reasons why people may live longer.

2. Define and explain the differences between life span and life expectancy.

3. Define the following terms: gerontology, senescence, aging.

4. Discuss the characteristics of aging: morphological, sensory changes, nerve/brain function.

5. Describe the various models that are used to study the process of aging: be able to discuss why researchers may choose one model versus another. What are the benefits or drawbacks of each?

6. Discuss when aging begins, what aging markers might be and how they can be used, whether all tissues/cells age at the same rate.

7. Be able to discuss the 10 theories of aging and to show understanding of these processes.

8. Discuss the relationship between energy use and aging and reproduction.

9. Discuss factors involved in successful aging and differences between men and women in the aging process.

10. Discuss the goals and responsibilities of aging research.

11. Give the names and functions of the following cellular components and describe the importance of each in the aging process: cell membrane, ribosome, mitochondria, nucleus, DNA, RNA.

12. Describe the structure and function of a gene and how genes are mutated.