**NAME: DATE:**

ECE 499/595: Biomedical Engineering & Healthcare Electronics – Fall 2020

1. What is the difference between Anatomy and Physiology?

2. Every Organ is created from two or more different types of Tissues.

What are the 4 main types of Tissues, and their function in the human body?

a.

b.

c.

d.

3. What are the 5 most important organs in the human body, and their function?

a.

b.

c.

d.

e.

4. What are the 9 levels in which matter is organized, from smallest to largest?

5. What is the difference betweenTendons, Ligaments, and Cartilage?

6. What is the difference between the Central and Peripheral nervous system?

7. What are the 3 main types of Muscle, and their function in the human body?

a.

b.

c.

8. What is different about how the 3 different types of Muscle are controlled by the nervous system?

9. What is the difference between compact and cancellous bone?

10. Many bodily functions are controlled by the nervous and endocrine systems. These two regulatory systems use chemical messengers for control and coordination of organ systems. Describe the type of chemical messengers used in the:

a. Endocrine system:

b. Nervous system: