Directions: Unless otherwise noted, use well organized sentences and paragraphs to respond to the question or statement. A general response will receive a general grade of 70%; a well developed and correct response will receive 100% of the possible points. Please make sure your cell phone is off or on vibrate: an audible tone will cause embarrassment, delivery of a class treat, and -5% points.

1. Describe the anatomy and chemistry of a cell membrane. You may choose to illustrate your answer, but you still must write sentences ...(10)

2. Differentiate between epithelial and connective tissue. Choose either epithelium or connective tissue and BRIEFLY describe four subtypes. (20)

3. In a sentence each, describe 5 functions of the skin. (15)
   a.
   b.
   c.
   d.
   e.
4. Differentiate between the epidermis and dermis—be sure to characterize each. List the layers of the epidermis from superficial to deep—include a characteristic of the layer. (20)

5. Describe how living bone comprises a dynamic system capable of responding to stresses. Consider the various types of bone cells. (15)
6. In a flowchart manner (this does not mean vomit back the text figure with a teeter totter...), demonstrate how the skin is involved in temperature regulation in response to a cold stimulus. (10)

Pick 5 of the following in one or two sentences: If you choose a joint or action, include a specific example in your answer. (10)

amphiarthroses

dorsiflexion

pivot joint

Marfan's syndrome

Adduction

Ginglymus