

## **Study Questions #7 for Week 9 Imaging the Body, Fall 05**

These are due Wed, Nov 30<sup>th</sup> at the beginning of class. **Write your answers neatly and legibly on a separate piece of paper that you will turn in.** Be prepared to discuss your answers. You may need to access outside resources to completely answer these questions.

1. We have seen a number of examples of weight-lifting and its influences on the appearance of the body. Outline the changes that occur in the body due to weight lifting and describe on a cellular level how these changes occur.
2. How does the body generate heat in response to cold temperatures? How does fatigue affect the body's ability to generate heat?
3. Calcium, it does a body good. Explain two different roles for calcium in the body. Be as specific as possible.
4. What is your favorite part of the turkey (if you hate turkey or are a vegan, pick a part)? What type of muscle fiber is dominant in this part? Why?
5. One of the big challenges in muscle design is transferring the contraction of an individual cell into a movement. Beginning with a cell, explain how its contraction results in a movement.
6. When you raise your hand in class, how are you able to hold it in the air for an extended time? Explain all the factors that may be involved.

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