

Bio 135: Student Name: _____

Take home lab:

Instructions: View the Interactive disc provided with your text over the materials on Muscle.
From your viewing of the materials answer the following questions:

1. What are the three muscle types" _____
2. Which of these are voluntary? _____
3. Which of these has intercalated discs? _____
4. What is the structural and functional unit of a muscle? _____
5. What are the two proteins that interact with one another to make a muscle move?

6. What ion is needed for the muscles to function? _____
7. What is the layer of connective tissue surrounding a single muscle cell? _____
8. What is the compound used to convert ADP back to ATP during short bursts of activity?

9. What type of muscle would a weight lifter have? _____
10. The process of adding motor units to increase force is known as: _____
11. A motor unit is defined as: _____
12. What is the name of the current theory that explains muscle activity? _____
13. Bundles of muscle cells are called: _____
14. Muscles are attached to bone by: _____
15. What is the name of the area where a nerve and muscle meet? _____
16. What is the neurotransmitter released from nerves at muscle ? _____
17. In the absence of oxygen, what is produced by the breakdown of
glucose? _____
18. What is the molecule shaped like a double headed golf club? _____
19. What is the thin filament made of? _____
20. What is the thick filament made of ? _____