

Muscular System Study Guide

1. Label the diagram to the right with: *fascicle, tendon, muscle fiber, endomysium, epimysium, perimysium.*

2. Place the following words in order from largest to smallest: *fascicle, myofilament, myofibril, myofiber (muscle cell), sarcomere*

3. List the 5 functions of the muscular system

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____

4. Label the following: *sarcomere,, myosin, and actin* on the figure to the right.

5. Thick filament fibers in myofibrils are _____ while thin filaments are called _____.

6. For each step in the diagram describe the state of contraction for the sarcomere.

- a) Sarcomere is _____
- b) Sarcomere is beginning to _____
 - _____ slides toward the center, as it is pulled by the _____ crossbridges
- c) Sarcomere is _____

7. _____ is the neurotransmitter that is released to stimulate the muscle.

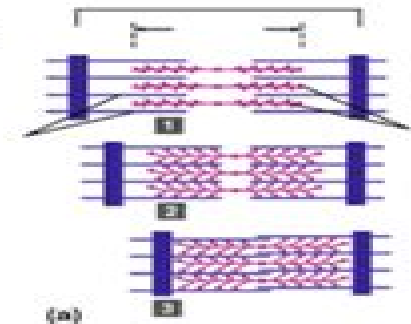
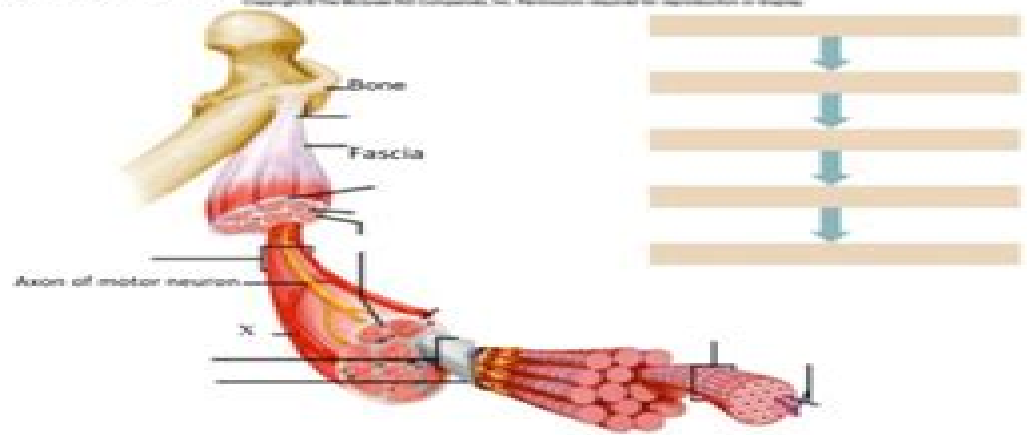
8. What two ions are exchanged when the neurotransmitter opens the gates on the membrane of the muscle fiber? _____ & _____

9. What ion is stored by the sarcoplasmic reticulum and starts muscle contraction? _____

10. Place the following steps in order of how a muscle contracts

- a) neuron releases a neurotransmitter to stimulate the muscle
- b) myosin heads attach to the actin filaments
- c) ATP is converted to ADP when the myosin head change shape pulling the actin filament
- d) Myosin heads pull the actin filament together
- e) Sarcoplasmic reticulum release calcium ions

11. Describe the sliding filament theory of muscle contraction.



Anatomy Physiology Muscular System Study Guide

Joseph E. Muscolino



Anatomy Physiology Muscular System Study Guide:

Unveiling the Magic of Words: A Review of "**Anatomy Physiology Muscular System Study Guide**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Anatomy Physiology Muscular System Study Guide**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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