

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.

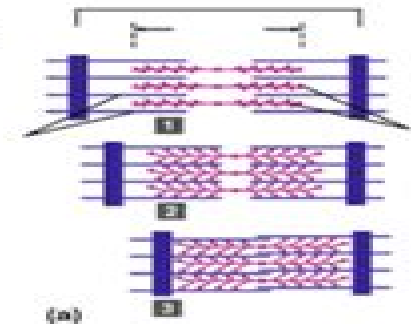
8. What two ions are exchanged when the neurotransmitter opens the gates on the membrane of the muscle fiber? _____ & _____

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 Muscular System Study Guide Answers

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Anatomy Muscular System Study Guide Answers:

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Anatomy Muscular System Study Guide Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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