Anatomy & A&P 10 Muscle Tissue MCQ Quiz

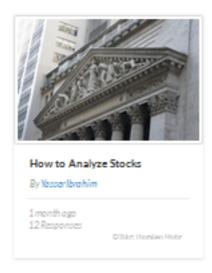
Author: OpenStax College

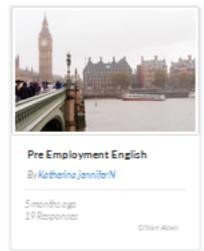
Published 2014

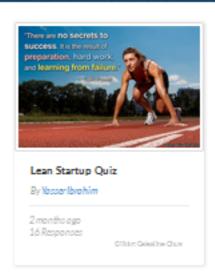
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4. Chapter: A&P 10 Muscle Tissue MCQ (Quiz	
1. A&P 10 Muscle Tissue MCQ Quiz Question	ons	
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4.1.1. Muscle that has a striped appearance is described as being
Author: OpenStax College
Muscle that has a striped appearance is described as being
Please choose only one answer: • elastic
• nonstriated
• excitable
• striated
Check the answer of this question online at QuizOver.com: Question: Muscle that has a striped appearance is OpenStax College Anatomy
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4.1.2. Which element is important in directly triggering contraction?

Author: OpenStax College

Which element is important in directly triggering contraction?

Please choose only one answer:

- sodium (Na+)
- calcium (Ca++)
- potassium (K+)
- chloride (CI-)

Check the answer of this question online at QuizOver.com:

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4.1.3. Which of the following properties is not common to all three muscle...

Author: OpenStax College

Which of the following properties is not common to all three muscle tissues?

Please choose only one answer:

- excitability
- the need for ATP
- at rest, uses shielding proteins to cover actinbinding sites
- elasticity

Check the answer of this question online at QuizOver.com:

Question: Which of the following properties is not OpenStax College Anatomy

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4.1.4. The correct order for the smallest to the largest unit of organizat...

Author: OpenStax College

The correct order for the smallest to the largest unit of organization in muscle tissue is ______.

Please choose only one answer:

- fascicle, filament, muscle fiber, myofibril
- filament, myofibril, muscle fiber, fascicle
- · muscle fiber, fascicle, filament, myofibril
- · myofibril, muscle fiber, filament, fascicle

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Depolarization of the sarcolemma means Please choose only one answer: • the inside of the membrane has become less negative as sodium ions accumulate • the outside of the membrane has become less negative as sodium ions accumulate • the inside of the membrane has become more negative as sodium ions accumulate • the inside of the membrane has become more negative as sodium ions accumulate • the sarcolemma has completely lost any electrical charge Check the answer of this question online at QuizQver.com: Question: Depolarization of the sarcolemma means . OpenStax College Anatomy Flashcards: http://www.quizover.com/flashcards/depolarization-of-the-sarcolemma-means-openstax-college-anatomy?pdf=1505 Interactive Question: http://www.quizover.com/question/depolarization-of-the-sarcolemma-means-openstax-college-anatomy?pdf=1505	4.1.5. Depolarization of the sarcolemma means
Please choose only one answer: the inside of the membrane has become less negative as sodium ions accumulate the outside of the membrane has become less negative as sodium ions accumulate the inside of the membrane has become more negative as sodium ions accumulate the inside of the membrane has become more negative as sodium ions accumulate the sarcolemma has completely lost any electrical charge Check the answer of this question online at QuizOver.com: Question: Depolarization of the sarcolemma means . OpenStax College Anatomy Flashcards: http://www.quizover.com/flashcards/depolarization-of-the-sarcolemma-means-openstax-college-anatomy?pdf=1505 Interactive Question:	Author: OpenStax College
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4.1.6. In relaxed muscle, the myosin-binding site on actin is blocked by _... Author: OpenStax College In relaxed muscle, the myosin-binding site on actin is blocked by Please choose only one answer: titin troponin myoglobin tropomyosin Check the answer of this question online at QuizOver.com: Question: In relaxed muscle the myosin-binding site OpenStax College Anatomy Flashcards: http://www.quizover.com/flashcards/in-relaxed-muscle-the-myosin-binding-site-openstax-college-anatomy?pdf=1505 Interactive Question: http://www.quizover.com/question/in-relaxed-muscle-the-myosin-binding-site-openstax-college-anatomy?pdf=1505

4.1.7. According to the sliding filament model, binding sites on actin ope...

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Auth	or:	Open	Stax	Col	leae

According to the sliding filament model, binding sites on actin open when _____

Please choose only one answer:

- creatine phosphate levels rise
- ATP levels rise
- · acetylcholine levels rise
- calcium ion levels rise

Check the answer of this question online at QuizOver.com:

Question: According to the sliding filament model OpenStax College Anatomy

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4.1.8. The cell membrane of a muscle fiber is called
Author: OpenStax College
The cell membrane of a muscle fiber is called
Please choose only one answer: • myofibril • sarcolemma
• sarcoplasm
• myofilament
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4.1.9. Muscle relaxation occurs when
Author: OpenStax College
Muscle relaxation occurs when
 Please choose only one answer: calcium ions are actively transported out of the sarcoplasmic reticulum calcium ions diffuse out of the sarcoplasmic reticulum calcium ions are actively transported into the sarcoplasmic reticulum calcium ions diffuse into the sarcoplasmic reticulum
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Author: OpenStax College
During muscle contraction, the cross-bridge detaches when
Please choose only one answer: the myosin head binds to an ADP molecule the myosin head binds to an ATP molecule calcium ions bind to troponin calcium ions bind to actin
Check the answer of this question online at QuizOver.com: Question: During muscle contraction the cross-bridge OpenStax College Anatomy Flashcards: http://www.quizover.com/flashcards/during-muscle-contraction-the-cross-bridge-openstax-college-anatomy?pdf=1505 Interactive Question:
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4.1.10. During muscle contraction, the cross-bridge detaches when ______.

4.1.11. Thin and thick filaments are organized into functional units called...

	_			
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Thin and thick filaments are organized into functional units called ______

Please choose only one answer:

- myofibrils
- myofilaments
- T-tubules
- sarcomeres

Check the answer of this question online at QuizOver.com:

Question: Thin and thick filaments are organized OpenStax College Anatomy Quest

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4.1.12. During which phase of a twitch in a muscle fiber is tension the gre...

Author: OpenStax College

During which phase of a twitch in a muscle fiber is tension the greatest?

Please choose only one answer:

- resting phase
- repolarization phase
- contraction phase
- · relaxation phase

Check the answer of this question online at QuizOver.com:

Question: During which phase of a twitch in a muscle OpenStax College Anatomy

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4.1.13. Muscle fatigue is caused by __ Author: OpenStax College Muscle fatigue is caused by Please choose only one answer: buildup of ATP and lactic acid levels exhaustion of energy reserves and buildup of lactic acid levels buildup of ATP and pyruvic acid levels exhaustion of energy reserves and buildup of pyruvic acid levels Check the answer of this question online at QuizOver.com: Question: Muscle fatigue is caused by . OpenStax College Anatomy Physiology Flashcards: http://www.quizover.com/flashcards/muscle-fatigue-is-caused-by-openstax-college-anatomy-physiology?pdf=1505 Interactive Question: http://www.quizover.com/question/muscle-fatigue-is-caused-by-openstax-college-anatomy-physiology?pdf=1505

4.1.14. A sprinter would experience muscle fatigue sooner than a marathon r... Author: OpenStax College A sprinter would experience muscle fatigue sooner than a marathon runner due to ____ Please choose only one answer: anaerobic metabolism in the muscles of the sprinter anaerobic metabolism in the muscles of the marathon runner aerobic metabolism in the muscles of the sprinter glycolysis in the muscles of the marathon runner Check the answer of this question online at QuizOver.com: Question: A sprinter would experience muscle fatigue OpenStax College Anatomy Flashcards: http://www.quizover.com/flashcards/a-sprinter-would-experience-muscle-fatigue-openstax-college-anatomy?pdf=1505 Interactive Question: http://www.quizover.com/question/a-sprinter-would-experience-muscle-fatigue-openstax-college-anatomy?pdf=1505

4.1.15. What aspect of creatine phosphate allows it to supply energy to mus...

Author: OpenStax College

What aspect of creatine phosphate allows it to supply energy to muscles?

Please choose only one answer:

- ATPase activity
- phosphate bonds
- carbon bonds
- hydrogen bonds

Check the answer of this question online at QuizOver.com:

Question: What aspect of creatine phosphate allows OpenStax College Anatomy

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4.1.16. Drug X blocks ATP regeneration from ADP and phosphate. How will mus...

Author: OpenStax College

Drug X blocks ATP regeneration from ADP and phosphate. How will muscle cells respond to this drug?

Please choose only one answer:

- by absorbing ATP from the bloodstream
- by using ADP as an energy source
- by using glycogen as an energy source
- none of the above

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Question: Drug X blocks ATP regeneration from ADP OpenStax College Anatomy

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4.1.17. The muscles of a professional sprinter are most likely to have _____... Author: OpenStax College The muscles of a professional sprinter are most likely to have _ Please choose only one answer: 80 percent fast-twitch muscle fibers and 20 percent slow-twitch muscle fibers 20 percent fast-twitch muscle fibers and 80 percent slow-twitch muscle fibers 50 percent fast-twitch muscle fibers and 50 percent slow-twitch muscle fibers 40 percent fast-twitch muscle fibers and 60 percent slow-twitch muscle fibers Check the answer of this question online at QuizOver.com: Question: The muscles of a professional sprinter OpenStax College Anatomy Quest Flashcards: http://www.quizover.com/flashcards/the-muscles-of-a-professional-sprinter-openstax-college-anatomy-quest?pdf=1505 Interactive Question: http://www.quizover.com/question/the-muscles-of-a-professional-sprinter-openstax-college-anatomy-quest?pdf=1505

4.1.18. The muscles of a professional marathon runner are most likely to ha...

Author: OpenStax College

The muscles of a professional marathon runner are most likely to have _____

Please choose only one answer:

- 80 percent fast-twitch muscle fibers and 20 percent slow-twitch muscle fibers
- 20 percent fast-twitch muscle fibers and 80 percent slow-twitch muscle fibers
- 50 percent fast-twitch muscle fibers and 50 percent slow-twitch muscle fibers
- 40 percent fast-twitch muscle fibers and 60 percent slow-twitch muscle fibers

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Question: The muscles of a professional marathon OpenStax College Anatomy Quest

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4.1.19. Which of the following statements is true?

Author: OpenStax College

Which of the following statements is true?

Please choose only one answer:

- Fast fibers have a small diameter.
- Fast fibers contain loosely packed myofibrils.
- Fast fibers have large glycogen reserves.
- Fast fibers have many mitochondria.

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Question: Which of the following statements is true OpenStax College Anatomy

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4.1.20. Which of the following statements is false?

Author: OpenStax College

Which of the following statements is false?

Please choose only one answer:

- Slow fibers have a small network of capillaries.
- Slow fibers contain the pigment myoglobin.
- Slow fibers contain a large number of mitochondria.
- Slow fibers contract for extended periods.

Check the answer of this question online at QuizOver.com:

Question: Which of the following statements is false OpenStax College Anatomy

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Author: OpenStax College Cardiac muscles differ from skeletal muscles in that they Please choose only one answer: • are striated • utilize aerobic metabolism • contain myofibrils • contain intercalated discs Check the answer of this question online at QuizOver.com; Question: Cardiac muscles differ from skeletal OpenStax College Anatomy Quest Flashcards: http://www.quizover.com/flashcards/cardiac-muscles-differ-from-skeletal-openstax-college-anatomy-quest?pdf=1505 Interactive Question: http://www.quizover.com/question/cardiac-muscles-differ-from-skeletal-openstax-college-anatomy-quest?pdf=1505		
Please choose only one answer: are striated utilize aerobic metabolism contain myofibrils contain intercalated discs Check the answer of this question online at QuizOver.com: Question: Cardiac muscles differ from skeletal OpenStax College Anatomy Quest Flashcards: http://www.quizover.com/flashcards/cardiac-muscles-differ-from-skeletal-openstax-college-anatomy-quest?pdf=1505 Interactive Question:	Author: OpenStax College	
 are striated utilize aerobic metabolism contain myofibrils contain intercalated discs Check the answer of this question online at QuizOver.com: Question: Cardiac muscles differ from skeletal OpenStax College Anatomy Quest Flashcards: http://www.quizover.com/flashcards/cardiac-muscles-differ-from-skeletal-openstax-college-anatomy-quest?pdf=1505 Interactive Question:	Cardiac muscles differ from skeletal muscles in that they	
 contain myofibrils contain intercalated discs Check the answer of this question online at QuizOver.com: Question: Cardiac muscles differ from skeletal OpenStax College Anatomy Quest Flashcards: http://www.quizover.com/flashcards/cardiac-muscles-differ-from-skeletal-openstax-college-anatomy-quest?pdf=1505 Interactive Question:	·	
 contain intercalated discs Check the answer of this question online at QuizOver.com: Question: Cardiac muscles differ from skeletal OpenStax College Anatomy Quest Flashcards: http://www.quizover.com/flashcards/cardiac-muscles-differ-from-skeletal-openstax-college-anatomy-quest?pdf=1505 Interactive Question: 	utilize aerobic metabolism	
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4.1.22. If cardiac muscle cells were prevented from undergoing aerobic meta...

Author: OpenStax College

If cardiac muscle cells were prevented from undergoing aerobic metabolism, they ultimately would ______.

Please choose only one answer:

- undergo glycolysis
- synthesize ATP
- stop contracting
- start contracting

Check the answer of this question online at QuizOver.com:

Question: If cardiac muscle cells were prevented OpenStax College Anatomy Quest

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4.1.23. Smooth muscles differ from skeletal and cardiac muscles in that the...

Author: OpenStax College

Smooth muscles differ from skeletal and cardiac muscles in that they _____

Please choose only one answer:

- lack myofibrils
- are under voluntary control
- lack myosin
- lack actin

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Question: Smooth muscles differ from skeletal and OpenStax College Anatomy

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4.1.24. Which of the following statements describes smooth muscle cells?

Author: OpenStax College

Which of the following statements describes smooth muscle cells?

Please choose only one answer:

- They are resistant to fatigue.
- They have a rapid onset of contractions.
- They cannot exhibit tetanus.
- They primarily use anaerobic metabolism.

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4.1.25. From which embryonic cell type does muscle tissue develop?

Author: OpenStax College

From which embryonic cell type does muscle tissue develop?

Please choose only one answer:

- · ganglion cells
- myotube cells
- myoblast cells
- satellite cells

Check the answer of this question online at QuizOver.com:

Question: From which embryonic cell type does muscle OpenStax College Anatomy

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4.1.26. Which cell type helps to repair injured muscle fibers?

Author: OpenStax College

Which cell type helps to repair injured muscle fibers?

Please choose only one answer:

- ganglion cells
- myotube cells
- · myoblast cells
- satellite cells

Check the answer of this question online at QuizOver.com:

Question: Which cell type helps to repair injured OpenStax College Anatomy

Flashcards:

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