

# Anatomy & A&P 10 Muscle Tissue MCQ Quiz

Author: OpenStax College

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## 4. Chapter: A&P 10 Muscle Tissue MCQ Quiz

### 1. A&P 10 Muscle Tissue MCQ Quiz Questions

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<sup>+</sup>)
- calcium (Ca<sup>++</sup>)
- potassium (K<sup>+</sup>)
- chloride (Cl<sup>-</sup>)

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

Question: [Which element is important in directly OpenStax College Anatomy Quest](#)

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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

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

Question: [The correct order for the smallest to the OpenStax College Anatomy](#)

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4.1.5. Depolarization of the sarcolemma means \_\_\_\_\_.

Author: OpenStax College

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 sarcolemma has completely lost any electrical charge

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

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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](#)

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Interactive Question:

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

Author: OpenStax College

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

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

Question: [The cell membrane of a muscle fiber is OpenStax College Anatomy Quest](#)

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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

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

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4.1.10. During muscle contraction, the cross-bridge detaches when \_\_\_\_\_.

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](#)

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

Author: OpenStax College

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:

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#### 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](#)

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#### 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

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

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](#)

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#### 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

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

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.

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

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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4.1.21. Cardiac muscles differ from skeletal muscles in that they \_\_\_\_\_.

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](#)

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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

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

Question: [Smooth muscles differ from skeletal and OpenStax College Anatomy](#)

Flashcards:

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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.

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

Question: [Which of the following statements describes OpenStax College Anatomy](#)

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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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