

# Muscular System Review Guide

1. List **AND** describe the functions of skeletal muscles.
  - movement
  - posture
  - supports soft tissue
  - Guards entrances and exits
  - provides heat/maintains body temperature
  - storage of minerals
2. List **AND** describe the characteristics of skeletal muscle.
  - responsiveness, conductivity ,contractility ,extensibility ,elasticity
3. What are two other names for a muscle fiber?
  - Muscle fiber
  - Myofiber
  - Myocyte
4. Describe the number and location of nuclei in a myofiber.
  - Have many nuclei just beneath the sarcolemma
5. Muscle cells are packed full of which type of protein filament?
  - myofibrils
6. Make sure you understand the difference between a myofiber and a myofibril!
  - Myofiber is a single muscle cell
  - Myofibril is bundles of protein filaments that cause contraction
7. What is another name for the muscle cytoplasm?
  - sarcoplasma
8. What is another name for the plasma membrane of a myofiber?
  - sarcolemma
9. Describe the location of the T tubules, sarcoplasmic reticulum, and terminal cisternae.
  - Purple lines on diagram
  - Tunnel-like unfolding's the penetrate the cell forming the sarcolemma (cell membrane) circles around myofibrils
10. What is the function of each of these structures?
11. What is a "triad" referring to?
  - A skeletal muscle substructure responsible for the regulation of excitation-contraction coupling
12. Label the connective tissue wrappings of a skeletal muscle.
  - Endomysium Perimysium Epimysium
13. What is an aponeurosis? Where are some regions in the human body might you find one?
  - Flat sheets of connective tissue in your body that are similar to tendons, they cover your muscles and help connect your muscles to your bones and cartilage. You have it all over your body
14. How does an aponeurosis differ from a tendon?
  - Aponeurosis is made of layers of delicate thin sheaths, primarily bundles of collagen fibers distributed in regular patterns
  - Tendons are tough and rope like
15. What is the name given to the contractile unit of muscle?
  - The sarcomere
16. What protein is the thin filament made of?
  - Actin
17. What protein is the thick filament made of?
  - myosin
18. What exactly is a cross bridge?

# Muscular System Review Guide Answers

**R Barnett**



## **Muscular System Review Guide Answers:**

## Enjoying the Beat of Appearance: An Psychological Symphony within **Muscular System Review Guide Answers**

In a global used by screens and the ceaseless chatter of fast connection, the melodic beauty and emotional symphony created by the written term frequently diminish into the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. Nevertheless, nestled within the pages of **Muscular System Review Guide Answers** a charming fictional value full of raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this captivating masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths with this touching assessment, we shall discover the book is key harmonies, analyze their enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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