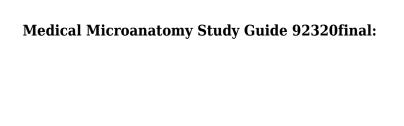
Muscle Microanatomy and Physiology Study Guide

- 1. Gross Anatomy of a Skeletal Muscle (hand-out, p. 180, fig. 6.1)
 - a. Muscle fibers, fascicles, blood vessels, and tendons.
- 2. Microscopic Anatomy of a Skeletal Muscle (hand-out, pp. 182-184, fig. 6.3)
 - Muscle cell membrane (Sarcolemma), myofibril, dark band, light band, nuclei, z discs, thin actin filaments, thick myosin filaments, sarcomere
- 3. Steps for Muscle Contraction and Relaxation
 - Nerve signal to muscle.
 - Thick myosin filaments bind to thin actin filaments.
 - Thick filaments use ATP to pull the thin filaments together, which shortens the muscles fibers' sarcomeres causing contraction.
 - Nerve signal stops, thick and thin filaments no longer bind each other and can slide past each other – muscle relaxes.
- Providing Energy for Muscle Contraction (hand-out, pp. 189-191, fig. 6.10)
 - a. Aerobic Energy Pathway (also called Cellular Respiration)
 - How we provide energy (ATP) to our cells 99% of the time.
 - Fuels = glucose in muscle and liver (2-3hrs), fat stores (6-12hrs), and proteins (days-starvation)
 - Requires oxygen and mitochondria
 - Produces 36 ATP per glucose and produces CO₂ as waste
 - Produces ATP relatively slowly
 - b. Anaerobic Energy Pathway (also called Lactic Acid Fermentation)
 - High intensity, short duration muscle activity like sprinting.
 - Our muscles use this pathway to produce fast energy during "emergencies".
 - Fuel = glucose stored in muscle only (30-60sec)
 - Produces only 2 ATP per glucose and produces lactic acid as waste. Lactic acid is very irritating to our muscles.
 - But it produces ATP very quickly

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RD Boyd



Whispering the Secrets of Language: An Psychological Quest through Medical Microanatomy Study Guide 92320final

In a digitally-driven earth where displays reign supreme and quick connection drowns out the subtleties of language, the profound secrets and mental subtleties concealed within phrases often go unheard. Yet, set within the pages of **Medical Microanatomy Study Guide 92320final** a captivating fictional value pulsating with natural thoughts, lies an extraordinary quest waiting to be undertaken. Written by an experienced wordsmith, this marvelous opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the very material of each and every word. Within the emotional depths of the touching evaluation, we will embark upon a genuine exploration of the book is key themes, dissect their charming writing fashion, and succumb to the powerful resonance it evokes deep within the recesses of readers hearts.

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