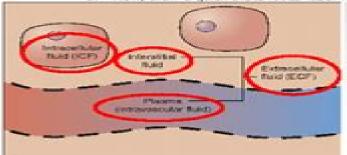
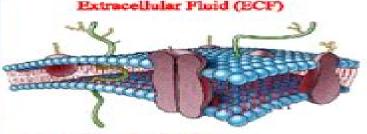
Directions: You will learn best if you WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER III

- 1. Get these terms straight in your head:
 - a. Extracellular fluid Na+ (positive) (which is also called intentitial fluid and _____).
 - b. Intracellular fluid K + (negative)
 - Intravascular fluid e.g. blood, plasma, etc. within cardiac chambers and vascular system of the body.
 - Now, draw a quick sketch AND label where you would find each of these fluids.





Intracellular Fluid (ICF)

- What portion of total body weight (TBW) is represented by each of the three types of fluids from above? 60-40-20 rule. 40 ICF. 20 BCF. 60 Body fluid
- What is meant by the term "polarity" in regard to the cell membrane of a neuron? Spatial differences in shape, structure, and cell function
- What is meant by the term "propagation" in regard to an axon? Propagated along the axon in 1 direction
- What is the difference between 'passive' and 'active' channels? Passive: look channels, always open
 - Active: gated channels, opens and closes in response to stimuli
- Compare and contrast the 3 classes of gated channels.
 - Chemically regulated channels: open in presence of specific chemicals at a binding site.

 Voltage-regulated channels: respond to changes in transmembrane potential. Have activation gates (opens) and inactivation gates (closes).
 - Mechanically regulated channels: respond to membrane distortion. Found in sensory receptors (touch, pressure, vibration
- Which class of gated channel are the sodium and potassium channels found in an action potential? WHY
 are they that particular class? Voltage gated, and because they need stimuli to open and close.
- Explain each of the following terms (making sure to include which ions are moving in which direction) AND draw/recognize them on a graph:
 - a. Membrane potential y-axis (mV)
 - b. Action potential rapid sequence of changes in voltage across a membrane
 - Resting period (resting membrane potential) -70mV
 - d. Threshold -55mM: Voltage-gated sodium channel opens
 - Depolarization (rising phase) Sodium rushes in, overshoots to 30+. Na+ channel closes. K+ opens
 - f. Repolarization (falling phase) K rushes out, dropping charge quickly to more negative than -90mV
 - g. Hyperpolarization more polarized than resting membrane potential (anything less than -70mV)
 - Refractory period (Absolute and Relative) period of time in which a cell is incapable of repeating action potential (boked and closed)
- 9. "An action potential is an all-or-none phenomenon." Either happens or it doesn't

Human Anatomy Action Potentials Study Guide Answers

SA Adler

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The Top Books of the Year Human Anatomy Action Potentials Study Guide Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Human Anatomy Action Potentials Study Guide Answers: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Human Anatomy Action Potentials Study Guide Answers: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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