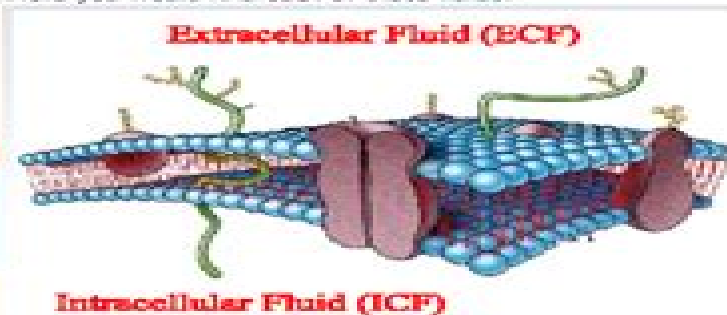
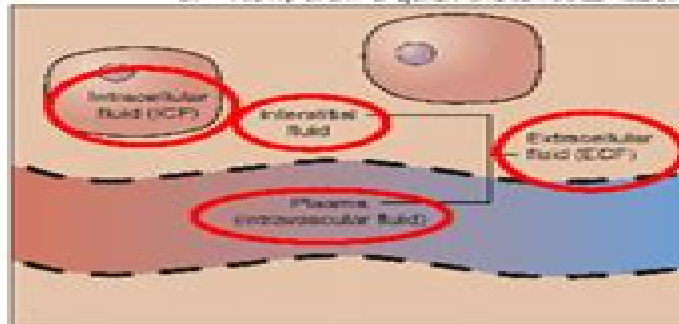


Directions: You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

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



2. 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 ECF, 60 Body fluid
3. What is meant by the term "polarity" in regard to the cell membrane of a neuron? **Spatial differences in shape, structure, and cell function**
4. What is meant by the term "propagation" in regard to an axon?
Propagated along the axon in 1 direction
5. What is the difference between 'passive' and 'active' channels?
Passive: leak channels, always open
Active: gated channels, opens and closes in response to stimuli
6. 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)
7. 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**
8. 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**
 - c. Resting period (resting membrane potential) **-70mV**
 - d. Threshold **-55mV**, voltage-gated sodium channel opens
 - e. 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)**
 - h. Refractory period (Absolute and Relative) **period of time in which a cell is incapable of repeating action potential (locked 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

Jianjun Gao



Human Anatomy Action Potentials Study Guide Answers:

Unveiling the Magic of Words: A Report on "**Human Anatomy Action Potentials Study Guide Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Human Anatomy Action Potentials Study Guide Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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