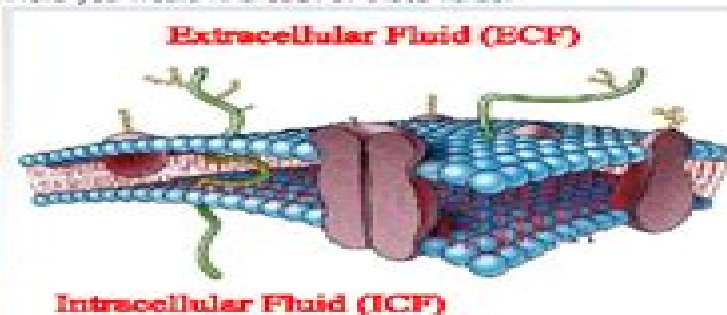
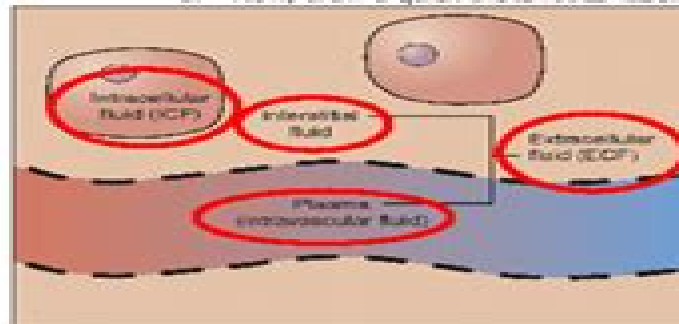


Directions: You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

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

M Carnoy



Human Anatomy Action Potentials Study Guide Answers:

Embracing the Melody of Appearance: An Mental Symphony within **Human Anatomy Action Potentials Study Guide Answers**

In a global used by screens and the ceaseless chatter of immediate connection, the melodic splendor and emotional symphony produced by the published word frequently fade in to the back ground, eclipsed by the persistent noise and distractions that permeate our lives. Nevertheless, nestled within the pages of **Human Anatomy Action Potentials Study Guide Answers** an enchanting fictional treasure filled with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this interesting masterpiece conducts readers on an emotional journey, skillfully unraveling the concealed songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the poignant analysis, we will explore the book is key harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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