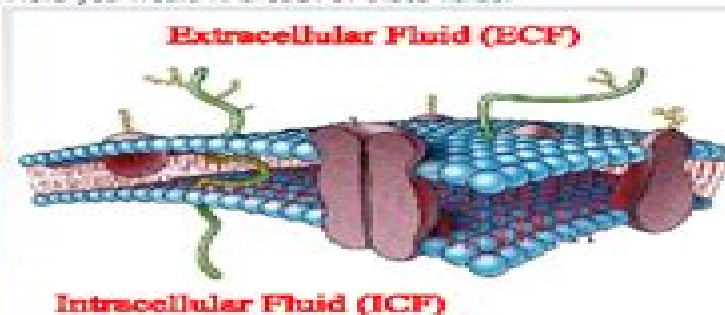
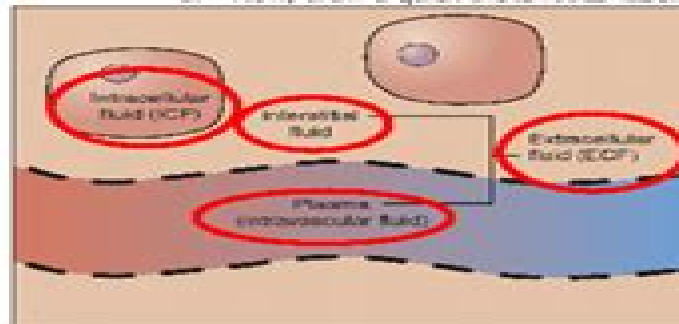


Directions: You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

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

F Rizvi



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