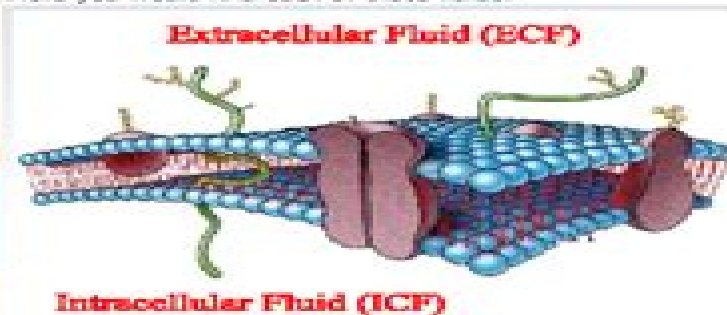
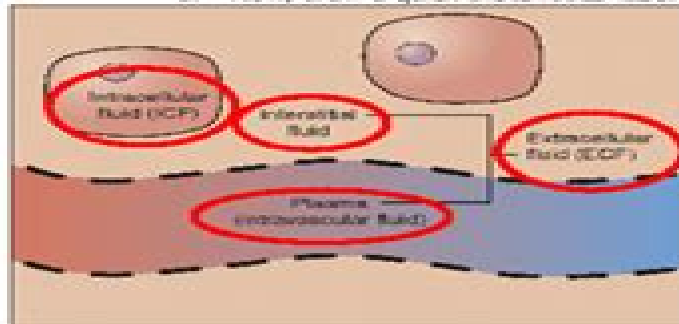


**Directions:** You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

1. Get these terms straight in your head:
  - a. Extracellular fluid  $\text{Na}^+$  (positive) (which is also called *interstitial fluid* and \_\_\_\_\_)
  - b. Intracellular fluid  $\text{K}^+$  (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 change 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

**Linda Swisher, Kevin T. Patton**



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