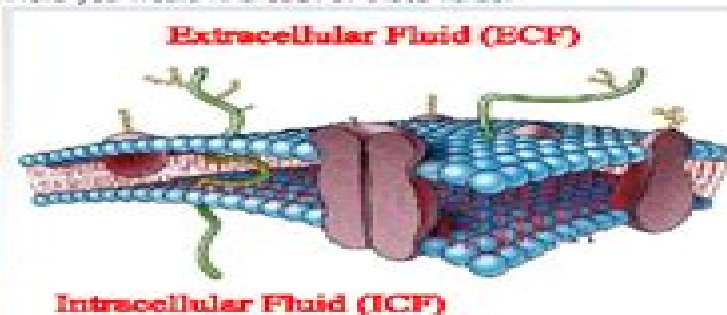
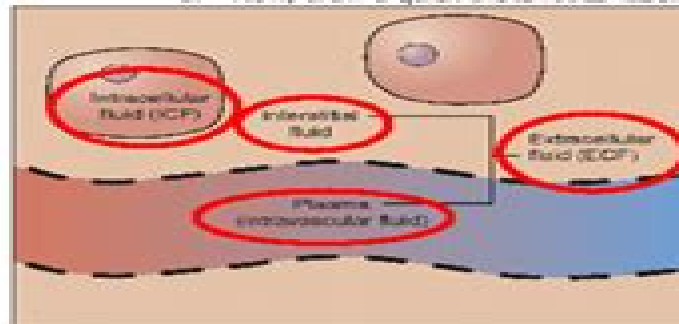


Directions: You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

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

Richard Bailey



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Student Notebook and Study Guide to Accompany The Human Body Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd's The Human Body reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text's concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online [Study Guide for Introduction to Human Anatomy and Physiology - E-Book - Revised Reprints](#) Lois A Ball, 2016-11-15 Study Guide for Introduction to Human Anatomy and Physiology E Book Revised Reprints **Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen, Memmler, 1996 **Study Guide for Anatomy & Physiology - E-Book** Linda Swisher, Kevin T. Patton, 2014-12-02 Get some extra help mastering core terms concepts and processes related to the anatomy and physiology of the human body with this comprehensive study aid Study Guide for Anatomy Physiology 9th Edition provides a variety of chapter activities and questions including crossword puzzles word scrambles and questions in the multiple choice true or false labeling matching and application formats to help you apply concepts and test your A P knowledge More than 1 200 review questions cover multiple choice matching true false fill in the blank and completion formats Mind tester activities include crossword puzzles word scrambles and more to make the process of learning basic anatomy and physiology more engaging Apply What You Know sections encourage critical thinking and application of core content Did You Know sections cover factual tidbits that will interest users Topics for review tell the reader what to review in the textbook prior to beginning the exercises in the study guide Answer key containing all the answers to study guide questions is located in the back of the guide NEW Modified chapter structure reflects the new organization of chapters in the Patton 9th Edition main text [Study Guide for Introduction to Human Anatomy and Physiology](#) Lois A. Ball, 2015-10-13 Ball's Study Guide for Introduction to Human Anatomy and Physiology 4th Edition is a comprehensive learning tool designed to help you better understand the terminology and concepts presented in Solomon's text Its Table of Contents mirrors that of the text's and its new matching exercises and jumble games fill in the blank study questions labeling exercises crossword puzzles and more give you a fun way to test your mastery of the material Updated with new content and art this engaging Study Guide provides you with the tools you need to learn the language of anatomy and physiology Labeling exercises consisting of art from the textbook reinforce understanding of where the structures of the body are located Multiple choice end of chapter tests immediately let you know if you have mastered the content of that chapter and better prepare you for multiple choice quizzes and exams in class Chapter outlines and learning objectives from the textbook highlight essential

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