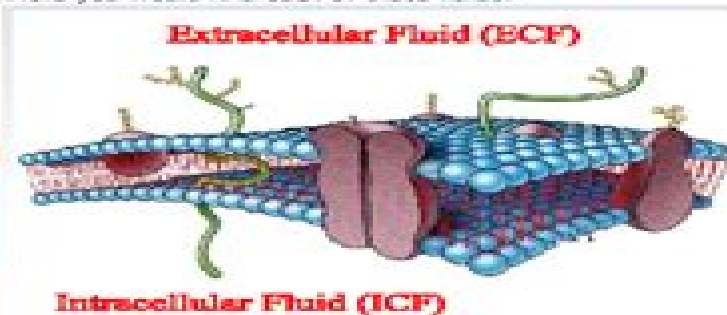
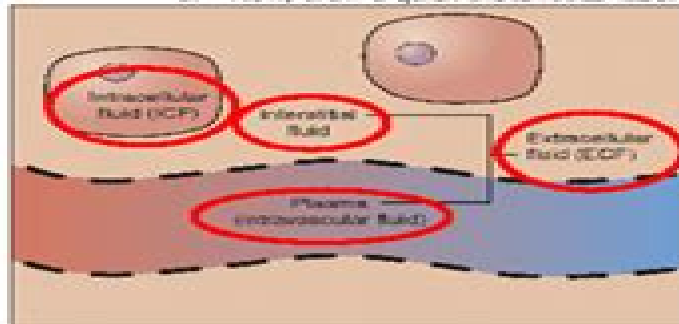


Directions: You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

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

K Payea



Human Anatomy Action Potentials Study Guide Answers:

Decoding **Human Anatomy Action Potentials Study Guide Answers**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Human Anatomy Action Potentials Study Guide Answers

1. Understanding the eBook Human Anatomy Action Potentials Study Guide Answers
 - The Rise of Digital Reading Human Anatomy Action Potentials Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Anatomy Action Potentials Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Anatomy Action Potentials Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Anatomy Action Potentials Study Guide Answers

- Personalized Recommendations
- Human Anatomy Action Potentials Study Guide Answers User Reviews and Ratings
- Human Anatomy Action Potentials Study Guide Answers and Bestseller Lists
- 5. Accessing Human Anatomy Action Potentials Study Guide Answers Free and Paid eBooks
 - Human Anatomy Action Potentials Study Guide Answers Public Domain eBooks
 - Human Anatomy Action Potentials Study Guide Answers eBook Subscription Services
 - Human Anatomy Action Potentials Study Guide Answers Budget-Friendly Options
- 6. Navigating Human Anatomy Action Potentials Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Human Anatomy Action Potentials Study Guide Answers Compatibility with Devices
 - Human Anatomy Action Potentials Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Anatomy Action Potentials Study Guide Answers
 - Highlighting and Note-Taking Human Anatomy Action Potentials Study Guide Answers
 - Interactive Elements Human Anatomy Action Potentials Study Guide Answers
- 8. Staying Engaged with Human Anatomy Action Potentials Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Anatomy Action Potentials Study Guide Answers
- 9. Balancing eBooks and Physical Books Human Anatomy Action Potentials Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Anatomy Action Potentials Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Human Anatomy Action Potentials Study Guide Answers
 - Setting Reading Goals Human Anatomy Action Potentials Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Human Anatomy Action Potentials Study Guide Answers

- Fact-Checking eBook Content of Human Anatomy Action Potentials Study Guide Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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