

# **MCD8 Course Packet 8 Membrane transport**

1. The drawing below represents the relative distribution of important ions (plus charged phosphate groups and proteins) that are found inside and outside the cell.

1a. If a membrane channel for  $\text{Na}^+$  were to open, in which direction would a net flow of  $\text{Na}^+$  be observed?

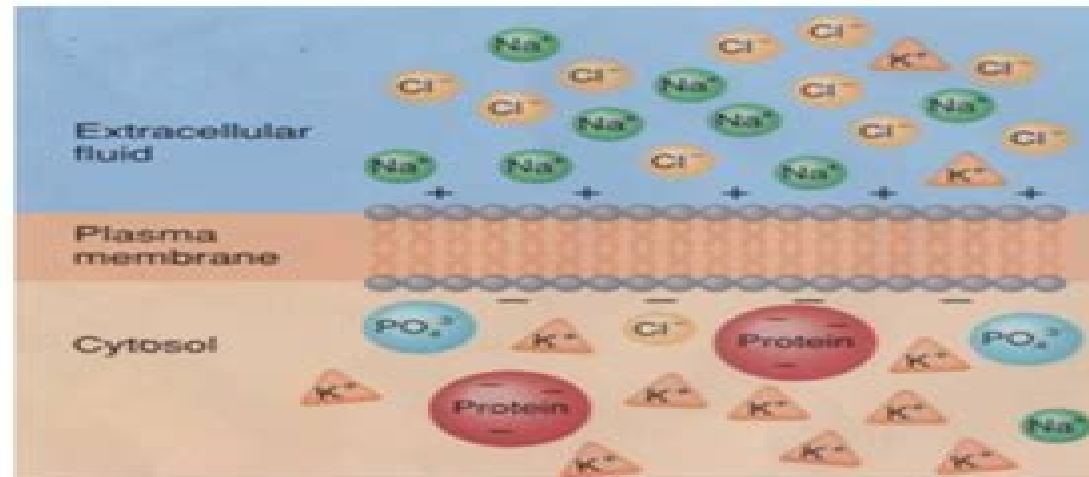
Into the cell

1b. If a membrane channel for  $\text{K}^+$  were to open, in which direction would a net flow of  $\text{K}^+$  be observed?

Out of the cell

1c. If a membrane channel for  $\text{Cl}^-$  were to open, in which direction would a net flow of  $\text{Cl}^-$  be observed?

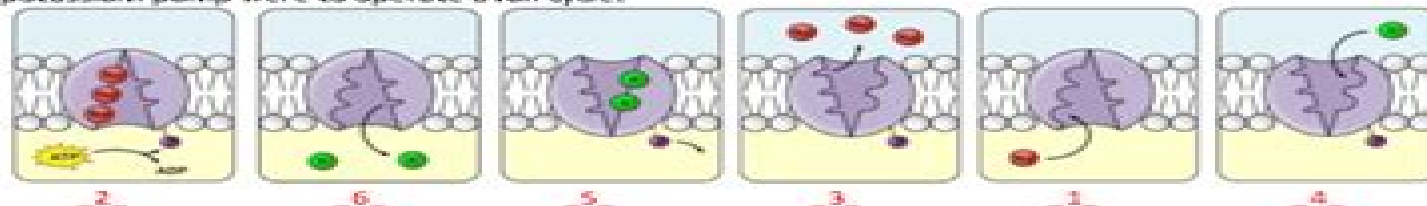
Into the cell



1d. If we consider both the electrical and chemical component of the gradient, which ion would experience the greatest "driving force"? (circle the correct answer)

$\text{K}^+$        **$\text{Na}^+$**        $\text{Cl}^-$

2a. Remember that (almost) all cells in our bodies have numerous  $\text{Na}^+/\text{K}^+$  pumps embedded in their plasma membrane. Please label the panels in the correct order (1-6) that one would observe if a sodium potassium pump were to operate a full cycle.



2b. What is the result of the activity of these pumps? (higher or lower, fill in the blank)

$\text{Na}^+$  concentration outside the cell is higher than the  $\text{Na}^+$  concentration inside.

$\text{K}^+$  concentration outside the cell is lower than the  $\text{K}^+$  concentration inside.

# Membrane Packet Answers

**Erin Ody, Pat DuPree**



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### **Table of Contents Membrane Packet Answers**

1. Understanding the eBook Membrane Packet Answers
  - The Rise of Digital Reading Membrane Packet Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Membrane Packet 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 Membrane Packet Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Membrane Packet Answers
  - Personalized Recommendations
  - Membrane Packet Answers User Reviews and Ratings
  - Membrane Packet Answers and Bestseller Lists

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