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AP Biology - Unit 1: Molecular Biology
Biology
1. Question
Planning Time - 10 minutes
Writing Time - 10 minutes

Directions: Read each question carefully. Write your response to the question(s) for each question. Answers may be written on separate sheets. Answers, labeled by question number, should be placed in the appropriate boxes and will be graded.

1. The following table lists the ionization energies for an unknown element, X.

1. The following ionization energies were found for an unknown element, X.

4. Answer Key

List of Free Response Questions

Flinnprep logo and navigation icons. A sidebar menu on the left shows 'Practice Test for AP Chemistry / Test 1 - Multiple Choice - Timed' with a 'Time Remaining' indicator showing 45:37. Below the menu, a question is displayed: 'The following ionization energies were found for an unknown element, X.' followed by a list of ionization energy values and a multiple-choice question: 'Which of the following formulas below would be correct for the unknown element?' with options A. X₂O, B. X₂O₂, C. X₂O₃, and D. X₂O₄.

AP BIOLOGY

Lab 5: Osmosis and Diffusion

The Aquaporin Connection

Cells must have accurate concentrations of dissolved compounds to maintain homeostasis. The membrane proteins called aquaporins, including the protein aquaporin-1, are essential proteins that facilitate the transport of water across membranes. The structure of aquaporin-1 is shown in the diagram below.

The aquaporin-1 protein, shown in the diagram below, is a transmembrane protein that spans the lipid bilayer. It is composed of six transmembrane α -helices and two extracellular loops. The protein is highly selective for water and is not permeable to other small molecules or ions.

The aquaporin-1 protein is highly selective for water. It is composed of six transmembrane α -helices and two extracellular loops. The protein is highly selective for water and is not permeable to other small molecules or ions.

Water moves through aquaporins by diffusion. The process is called osmosis. The water that moves through the aquaporin protein is highly selective for water and is not permeable to other small molecules or ions.

The water aquaporin-1 protein is highly selective for water. It is composed of six transmembrane α -helices and two extracellular loops. The protein is highly selective for water and is not permeable to other small molecules or ions.

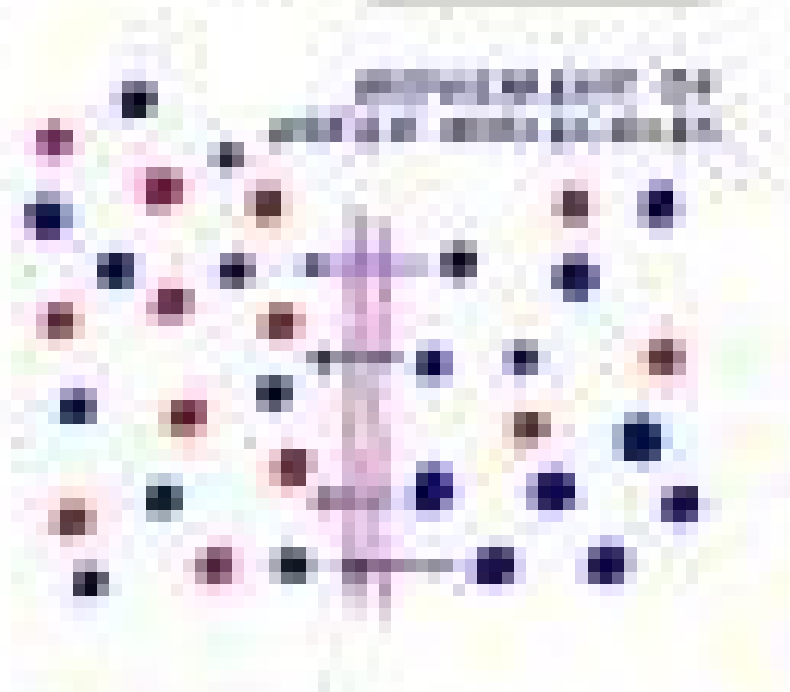
The structure of aquaporin-1 is shown in the diagram below. It is a transmembrane protein that spans the lipid bilayer. It is composed of six transmembrane α -helices and two extracellular loops.

Understanding Water Potential

Water potential is the potential energy of water. It is the energy that water has due to its position and the forces acting on it. Water potential is measured in joules per mole of water.

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Name: _____



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