

Membrane function pogil answers quizlet

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3) Hypobromous acid, HOBr, is a weak acid that dissociates in water, as represented by the equation



a.) Calculate the value of $[\text{H}^+]$ in an HOBr solution that has a pH of 4.95.

$$[\text{H}^+] = 10^{-4.95}$$

$$[\text{H}^+] = 1.1 \times 10^{-5} \text{ M}$$

b.) Write the equilibrium constant expression for the ionization of HOBr in water, then calculate the concentration of HOBr(aq) in an HOBr solution that has $[\text{H}^+]$ equal to $1.8 \times 10^{-5} \text{ M}$.

$$K_a = \frac{[\text{H}^+][\text{OBr}^-]}{[\text{HOBr}]}$$

$$2.3 \times 10^{-9} = \frac{(1.8 \times 10^{-5})^2}{X} \Rightarrow X = \frac{(1.8 \times 10^{-5})^2}{2.3 \times 10^{-9}} \Rightarrow X = 0.14 \text{ M} = [\text{HOBr}]$$

c.) A solution of $\text{Ba}(\text{OH})_2$ is titrated into a solution of HOBr.

i. Calculate the volume of 0.115 M $\text{Ba}(\text{OH})_2(aq)$ needed to reach the equivalence point when titrated into a 65.0 mL sample of 0.146 M HOBr(aq).

$$M_B V_B = M_A V_A$$

$$0.115 \text{ M} V_B = 0.146 \text{ M} \times 65.0 \text{ mL}$$

$$V_B = \frac{0.146 \text{ M} \times 65.0 \text{ mL}}{0.115 \text{ M}}$$

$$V_B = 81.3 \text{ mL}$$

ii. Indicated whether the pH at the equivalence point is less than 7, equal to 7, or greater than 7. Explain.

The pH will be greater than 7 because only water and the conjugate base will exist at the equivalence point. The conjugate base is the reason the pH will be above 7.

d.) Calculate the number of moles of NaOBr(s) that would have to be added to 125 mL of 0.160 M HOBr to produce a buffer solution of $[\text{H}^+] = 5.00 \times 10^{-9} \text{ M}$. Assume that volume change is negligible.

$$\frac{K_a}{[\text{H}^+]} = \frac{[\text{OBr}^-]}{[\text{HOBr}]}$$

$$\frac{2.3 \times 10^{-9}}{5.00 \times 10^{-9}} = \frac{X}{0.125 \text{ L} \times 0.160 \text{ M}}$$

$$X = \frac{2.3 \times 10^{-9} \times 0.0200}{5.00 \times 10^{-9}}$$

$$X = 0.0092 \text{ mol OBr}^-$$

e.) HOBr is a weaker acid than HBrO_3 . Account for this fact in terms of molecular structure.

HOBr is a weaker acid than HBrO_3 because it has fewer oxygens in the molecule.

Membrane Functions

How does the membrane control movement of materials?

Why?

Cells are surrounded by membranes that control the movement of materials in and out of the cell. Membranes are made of phospholipids and proteins. The phospholipids form a bilayer, and the proteins are embedded in the bilayer. This structure allows the membrane to control the movement of materials in and out of the cell.

Model 1 - Types of Ions and Molecules in a Cell

Type of Ion	Type of Molecule	Type of Molecule	Type of Molecule
Common: K^+	Common: H_2O	Common: O_2	Common: CO_2
Common: Na^+	Common: $\text{C}_6\text{H}_{12}\text{O}_6$	Common: $\text{C}_2\text{H}_5\text{OH}$	Common: C_2H_4
Common: Ca^{2+}	Common: $\text{C}_2\text{H}_5\text{OH}$	Common: $\text{C}_2\text{H}_5\text{OH}$	Common: C_2H_4
Common: Cl^-	Common: $\text{C}_2\text{H}_5\text{OH}$	Common: $\text{C}_2\text{H}_5\text{OH}$	Common: C_2H_4

- Consider the ions and molecules in Model 1.
 - Identify at least two substances that would tend to move across cell membranes.
 - Identify at least two substances that would not tend to move across cell membranes.
- Identify at least two substances that would tend to move across cell membranes.
 - Identify at least two substances that would not tend to move across cell membranes.
- Consider the ions and molecules in Model 1.
 - Identify at least two substances that would tend to move across cell membranes.
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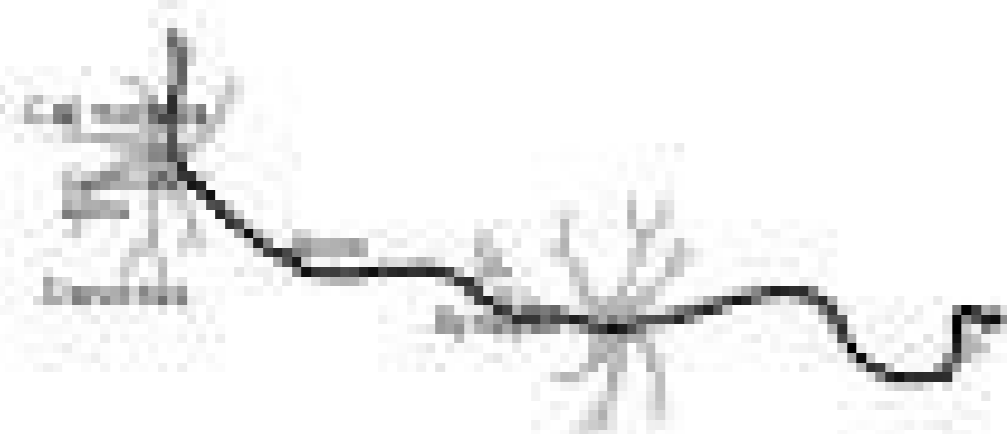
Neuron Structure

What are the various parts of the neuron?

Why?

Cells are surrounded by membranes that control the movement of materials in and out of the cell. Membranes are made of phospholipids and proteins. The phospholipids form a bilayer, and the proteins are embedded in the bilayer. This structure allows the membrane to control the movement of materials in and out of the cell.

Model 1 - Parts of a Neuron



- Model 1 is a diagram of a neuron. Label one of the neurons on the diagram with the following structures:
 - Cell body
 - Dendrites
 - Axon
 - Myelin sheath
- Identify at least two substances that would tend to move across cell membranes.
 - Identify at least two substances that would not tend to move across cell membranes.
- Identify at least two substances that would tend to move across cell membranes.
 - Identify at least two substances that would not tend to move across cell membranes.



Population Growth
How is population growth naturally regulated?

Why?
The current world population is estimated to be over 7 billion. At present the number of births annually exceed the number of deaths, which means that the population is increasing, and is expected to reach 7 billion by 2040. In 1790 the world population was estimated at less than 800 million. How are growing populations such as ours controlled and regulated, and are they continuing to grow unchecked?

Model 1 – Population Growth

1. Refer to Model 1.

- What is the main cause for population moving into an area?
Immigration
- What is the main cause for population leaving an area?
Emigration
- Name two factors that cause an increase in the population size.
Births and immigration
- Name two factors that cause a decrease in population size.
Deaths and emigration

Population Growth 1

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