

Membrane Physiology, Nerve, and Muscle

- Simple diffusion and facilitated diffusion share which of the following characteristics?
 - Can be blocked by specific inhibitors
 - Do not require adenosine triphosphate (ATP)
 - Require transport protein
 - Saturation kinetics
 - Transport solute against concentration gradient
- What is the osmolarity of a solution containing 10 millimolar NaCl, 5 millimolar KCl, and 10 millimolar CaCl_2 (in mOsm/L)?
 - 20
 - 40
 - 60
 - 80
 - 100
- The net driving force is greatest for which ion when the membrane potential of this cell is -85 millivolts?
 - Ca^{++}
 - Cl^-
 - K^+
 - Na^+
- If this cell were permeable only to K^+ , what would be the effect of reducing the extracellular K^+ concentration from 5 to 2.5 millimolar?
 - 19 millivolts depolarization
 - 19 millivolts hyperpolarization
 - 38 millivolts depolarization
 - 38 millivolts hyperpolarization
 - 29 millivolts depolarization
 - 29 millivolts hyperpolarization

Questions 3–6

Intracellular (mM)	Extracellular (mM)
140 K^+	5 K^+
12 Na^+	145 Na^+
5 Cl^-	125 Cl^-
0.0001 Ca^{++}	5 Ca^{++}

The table above shows the concentrations of four ions across the plasma membrane of a hypothetical cell. Use this table to answer Questions 3–6.

- Which of the following best describes the equilibrium potential for Cl^- (in millivolts)?
 - 0
 - 170
 - -170
 - 85
 - -85
- Which of the following best describes the equilibrium potential for K^+ (in millivolts)?
 - 0
 - 176
 - -176
 - 88
 - -88
- A clinical study is conducted to determine the actions of an unknown test solution on red blood cell volume. One milliliter of heparinized human blood is pipetted into 100 milliliters of test solution and mixed. Samples are taken and analyzed immediately before and at 1-second intervals after mixing. The results show that red blood cells placed into the test solution immediately swell and burst. Which of the following best describes the tonicity and osmolarity of the test solution?
 - Hypertonic; could be hyperosmotic, hypo-osmotic, or iso-osmotic
 - Hypertonic; must be hyperosmotic or hypo-osmotic
 - Hypertonic; must be iso-osmotic
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 - Hypotonic; must be hyperosmotic or hypo-osmotic
 - Hypotonic; must be iso-osmotic

Guyton Physiology Review Questions

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