

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
- Which of the following best describes the changes in cell volume that will occur when red blood cells (previously equilibrated in a 280-milliosmolar solution of NaCl) are placed in a solution of 140-millimolar NaCl containing 20-millimolar urea, a relatively large but permeant molecule?
 - Shrink, then swell and lyse
 - Shrink, then return to original volume
 - Swell and lyse
 - Swell, then return to original volume
 - No change in cell volume
- 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
 - Hypotonic; could be hyperosmotic, hypo-osmotic, or iso-osmotic
 - Hypotonic; must be hyperosmotic or hypo-osmotic
 - Hypotonic; must be iso-osmotic

Guyton Physiology Review Questions

IM Harris



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The Top Books of the Year Guyton Physiology Review Questions The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Guyton Physiology Review Questions : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Guyton Physiology Review Questions : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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