What is the dielectric constant for air?

A. Close to 0
B. Between 0 and 1
C. Close to 1
D. Between 1 and HUGE
E. HUGE

What is the dielectric constant for an insulator?

A. Close to 0
B. Between 0 and 1
C. Close to 1
D. Between 1 and HUGE
E. HUGE

What is the dielectric constant for a conductor?

A. Close to 0
B. Between 0 and 1
C. Close to 1
D. Between 1 and HUGE
E. HUGE

What is the Debye length in a vacuum?

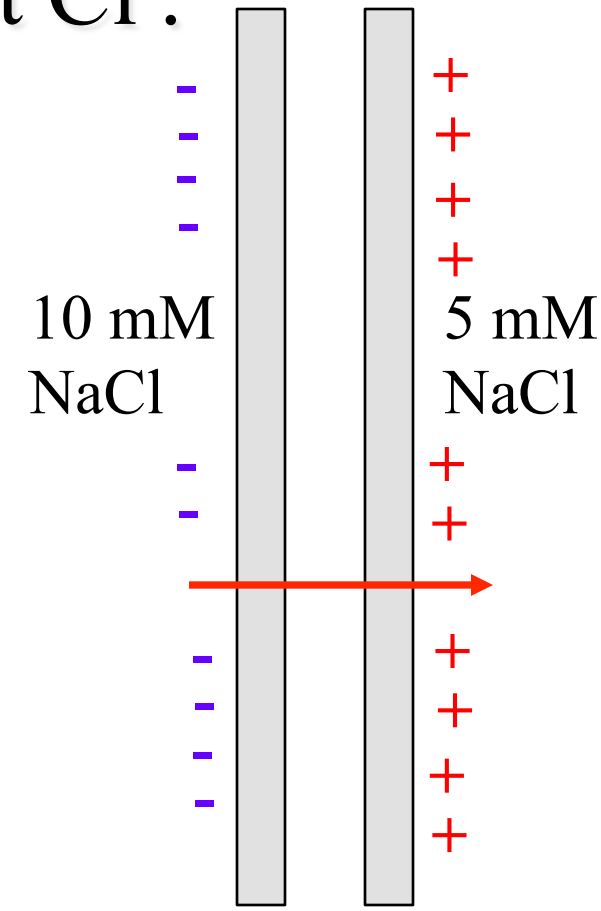
A. Zero
B. 1 meter
C. Infinity
D. Something else

At low temperature should the Debye length be large or small?

A. Large
B. Small
C. Debye length doesn't depend on temperature
D. I don't know how to think about this

What if the membrane is permeable to some ions and not others? Let's say it's permeable to Na^+ but not Cl^-. What will the result be?

A. Excess + on the left.
B. Excess + on the right
C. Excess − on the left
D. Excess − on the right
E. A and D
F. B and C.



At low temperature, should the Nernst potential be large or small?

A. Large
B. Small
C. Nernst potential doesn't depend on temperature
D. I don't know how to think about this