# **Lab 3: Cell transport**

## **PRE-LAB Report (5 pts)**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You should do these problems **BEFORE** coming to the lab. All necessary information to do these problems is found in the physiology lab manual.

1. How would you make a 30% (w/v) solution of glycerol?
2. What would the molarity of the above solution be? (The chemical formula for glycerol is C3H8O3)
3. What is the osmolarity of the above solution?
4. What is the osmolarity of a 20% NaCL solution?
5. Assuming that these solutes are impermeant, is the 30% solution of glycerol hypertonic, hypotonic, or isotonic to the 20% solution of NaCL?