

## OSMOSIS WORKSHEET

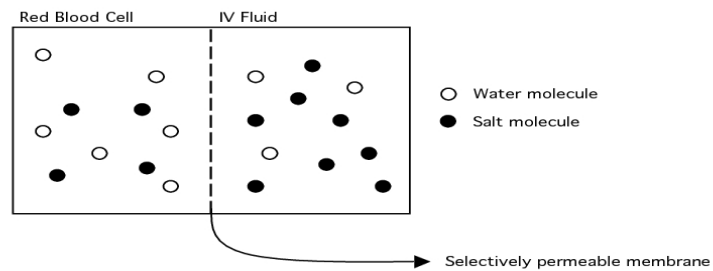
BIOL 1110

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Using the information you learned in lab, complete the following questions.

1. Below is a diagram of a red blood cell surrounded by intravenous (IV) fluid.



a) How many solvent molecules are in the red blood cell?

b) How many solute molecules are there in the IV fluid?

c) The membrane is permeable to water only.  
What direction (if any) will water move?

d) Is the IV fluid hypertonic, hypotonic, or isotonic to the red blood cell?

2. You have a red blood cell that contains 125 molecules of salt and 75 molecules of water. The IV fluid contains only 200 molecules of water.

a) What is the concentration of each solute in the cell. Show your calculations.