Tonicity Questions Practice Sheet

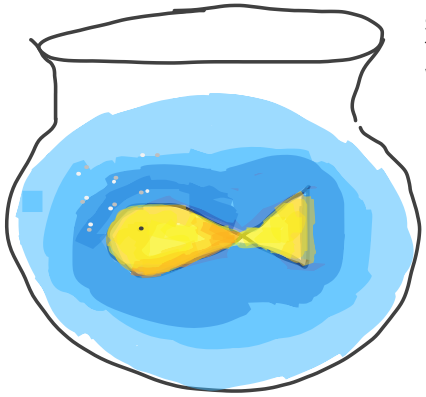
Thursday, September 19, 2024 10:58 AM

Definitions to clear up before we proceed:

Osmosis Definition:

Tonicity Definition:

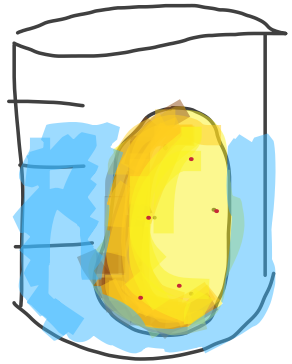
Hypertonic:
Hypotonic:
Isotonic:



Scenario 1:
The fish cell has a salt concentration of 10% while the fluid in the fish bowl has a water concentration of 90%.

Scenario 2:
The fish cell has a water concentration of 23% while the fluid in the fish bowl has a salt concentration of 7%.

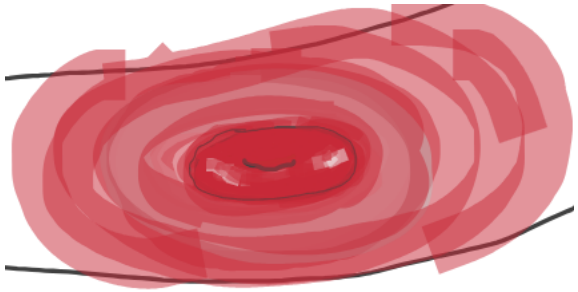
Scenario 3:
The fish cell has a water concentration of 15% While the fluid in the fish bowl has a water concentration of 2%.



Scenario 1:
The potato cell has a salt concentration of 80% while the fluid in the beaker has a water concentration of 40%.

Scenario 2:
The potato cell has a water concentration of 43% while the fluid in the beaker has a salt concentration of 57%.

Scenario 3:
The potato cell has a water concentration of 65% While the fluid in the beaker has a water concentration of 64%.



Scenario 1:
The RBC cell has a water concentration of 1% while the fluid in the surrounding blood has a water concentration of 2%.

Scenario 2:
The RBC cell has a salt concentration of 99% while the fluid in the surrounding blood has a water concentration of 1%.

Scenario 3:
The RBC cell has a water concentration of 1.55% while the fluid in the surrounding blood has a salt concentration of 99%.