1. Calculate the osmotic concentration of a 0.9% (w/v) physiological (normal) saline solution. *(Answer: 283 mOsm/L)*

2. Calculate the osmotic concentration of a 5% (w/v) glucose solution. *(Answer: 278 mOsm/L)*

3. Calculate the osmotic concentration of a Ringer's lactate solution that contains 6 g NaCl, 0.4 g KCl, 0.27 g $CaCl_2$, 3.2 g Na-lactate in 1000 mL. *(Answer: 261 mOsm/L)*