## **AP Chemistry Exam Review**

## Free Response Practice #7

2015 #4 (4 points)

Answer the following questions about the solubility of Ca(OH) $_2$  (K $_{sp}$  = 1.3 x 10 $^{-6}$ ).

a.	Write a balanced chemical equation for the dissolution of Ca(OH) <sub>2</sub> in pure water.
b.	Calculate the molar solubility of $Ca(OH)_2$ in $0.10$ M $Ca(NO_3)_2$ .
c.	In the box below, complete a particle representation diagram that includes $\underline{\text{four}}$ water molecules with proper orientation around the $\text{Ca}^{2+}$ ion.
	Represent water molecules as
	$(Ca^{2+})$