**CHEM525 Experiment 3b Prelab Questions: Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. (3 points) List 3 different techniques that can be used for the chromatographic purification of proteins. Briefly describe the basis for each separation.
2. (4 points) You have a sample of bacterial lysate from which you want to purify a recombinant protein. Describe a purification protocol that consists of 2 chromatographic steps and explain the rationale behind each one. You may assume that you have engineered a tag (any tag you’d like) onto the recombinant protein.
3. (3 points) Write out the procedure you will use this week in your laboratory notebook. Be certain to leave room for exceptions/adjustments that will inevitably occur.