**CHEM525 Biological Mass Spectrometry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. (2 points) What does the acronym MALDI-TOF MS stand for?
2. (6 points) Explain the ionization and the mass separation processes in MALDI-TOF MS. Remember: You are all science majors, so be scientific in your answer or points will be deducted.
3. (2 points) You have been given a sample of an unknown protein and the mature amino acid sequence of the protein by a colleague who wants to know if the sample is pure and if he has purified the correct protein. Using techniques and equipment that you have used or will use this semester, design experiments that will answer his questions. Be thorough in your answer or points will be deducted.

FDYCKCR (cheater!)