1. Look up the 2010 crystal structure of bacterial nitric oxide reductase. What is the journal reference for its publication?
2. From what bacterium was it isolated?
3. What ligands coordinate the non-heme iron center (FeB) in the crystal structure?
4. Write the balanced half-reaction for the reduction of NO to N2O in acidic conditions.
5. Use HSAB arguments to explain why the BMPA-Pr ligand complex would have a lower redox potential (ie, why is it easier to make the Ferric form) than the TPA complex on which it was based.
6. List the techniques that were used in this communication.