**CHEM525 Bioinformatics/Chimera Prelab Questions**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. (2 points) What is Entrez used for? What is BLAST used for? What is the PDB?
2. (2 points) What information can be found in a PDB file? What program will we use to read this type of file and display the information graphically on a computer?
3. (3 points) In the Marin-Rodriguez paper given to you in week one, the authors describe the chemical essentials necessary for pectate lyases to function. What are they?
4. (3 points) In the Cosgrove review article, the dimerization of homogalacturonan is described. What ion is important in forming dimers of homoglactuoronan and how does the plant prevent such cross bridges from forming when the cells are actively growing?