PLP 305 Questions 10/4 – 10/9

This week worth 6 points!

For this week’s questions, please read the APS disease lesson on Stinking Smut. The lesson can be found at this link:

(<http://www.apsnet.org/edcenter/intropp/lessons/fungi/Basidiomycetes/Pages/StinkingSmut.aspx>)

After reading the lesson, please answer the following questions.

1. What pathogen is responsible for this disease? What phylum and subphylum of fungi does it belong to?
2. Please draw (remember stipulations from last time, although feel free to make original artwork) the disease cycle for stinking smut. I want you to point out where a) plasmogamy occurs, b)karyogamy occurs, and c) which structure will serve as an over wintering structure .
3. How is this disease controlled? How long can survival structures remain viable in the soil? Is this disease still a big problem in many industrialized countries?