**Lab 4 Pre-Lab Assignment: Microorganisms**  
1. What is a **microorganism?  
  
  
  
2.** What are the differences between a **prokaryotic** and a **eukaryotic** organism?  
  
  
  
  
  
3. What are the **three domains** identified on anevolutionary tree? Which groups of organisms belong to which domain?  
  
  
  
  
  
4. What are the three common bacterial shapes? Oscillatoria is a cyanobacteria? How does it get its energy?  
  
  
  
  
5. What are the three categories of Kingdom Protista?  
  
  
  
  
6. Fungi \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dead organisms to obtain food for energy, have cell walls made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_, and reproduce by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Multicellular fungi are composed of chains of cells called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. What part of a fungal body then is a mushroom?hmmmm…..  
  
7. Plants belong to Kingdom \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which includes photosynthetic multicellular organisms that have cell walls made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Plant cells may contain specialized, membrane-bound organelles called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Chlorophyll is stored in one of these structures specifically called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. Kingdom Animalia is made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_organisms with well-defined tissue layers. Animals must obtain their energy by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Do their cells exhibit cell walls?