**MCB 2010**

**Exam 3 Study Guide**

* Review all PowerPoints
* What is meiosis used for? Mitosis? What is shizogeny?
* What are the characteristics of protozoa?
  + Know the major groups of protozoa we discussed
  + What is a macronucleus? Micronucleus? Contractile vacuole?
  + What is a trophozite?
* What are the characteristics of algae? Remember that unicellular algae are phytoplankton and multicellular algae are seaweeds
* What are the characteristics of Fungi?
  + What is a saprobe?
  + What are hyphae?
  + What are mycelium?
  + What are coenocytes?
  + How are asexual spores classified?
* What are lichens? What do lichens do in the environment?
* Viruses
  + What are viruses made of?
  + Remember that a virus must be in a cell to make more viral proteins and nucleic acids (outside the cell it is just an inert virion)
  + What is a bacteriophage?
  + What is the lytic cycle? What is the order of stages of the lytic cycle? Lysogenic cycle? What can cause a phage to go from the lysogenic cycle to the lytic cycle?
  + Host specificity of a virus is due to what factors?
  + For enveloped viruses, what is the envelope made of?
  + How can a virus induce cancer? What is the multiple hit model we discussed? what is malignancy? What is metastisis?
  + What does it mean to say an animal virus is latent?
* What are viriods?
* What are prions? In what animal group do prions cause disease?
* What are zoonoses?
* What is the series of events in an infectious disease in an individual?
* What is a vector?
* What are opportunistic pathogens?
* What are reservoirs of disease?
* What is the most frequent entry way of the body for pathogens?
* What does it mean to be highly virulent?
* What is an epidemic? Pandemic?
* What is meant by contagious disease?