Biology Test 2 Study Guide – Ecology

1. What is ecology?
2. What is competition?
3. Know the levels of organization of ecology (population, community, etc.)
4. What is a trophic level?
5. Know the following trophic levels: producers, consumers, decomposers, detritivores and decomposers.
6. Know the following alternate terms: autotroph, heterotroph, herbivore, carnivore, omnivore.
7. What are abiotic and biotic factors?
8. Know the difference between a food chain and a food web.
9. Be able to construct and know how to read a food web.
10. Know how energy flows through an ecosystem. Why are there more producers than consumers?
11. What is the ecological pyramid? Know how it applies to food webs.
12. What are the 3 most important characteristics of a population?
13. What 3 factors affect population size?
14. Know the difference between immigration and emigration.
15. Understand exponential and logistic growth and what causes each of these growth patterns.
16. What is carrying capacity?
17. What are limiting factors?
18. Know the difference between density dependent and density independent factors. Be able to give examples of each.
19. Understand predator-prey interactions.