Ecology Exam Study Guide

What is ecology?

Discuss the relationship between- organism, population, community, ecosystem, and biosphere

What is an organism’s niche? What kinds of things are included in a niche?

Draw a trophic level pyramid and discuss what occurs at each level. What happens to biomass and energy at each level?

What is the difference between producers, herbivores, consumers, carnivores, and decomposers,detritivore, omnivores

What is the difference between a food web and a food chain?

Discuss the water cycle (precipitation, evaporation, transpiration, condensation and run off)

Discuss the carbon cycle (burning of fossil fuels, photosynthesis, cellular respiration and how fossil fuels are created)

How do humans affect the carbon cycle (burning fossil fuels, clearing forests, breathing?)

Discuss 3 types of symbiosis.

What kinds of things to plant use to ward off herbivores?

What is the difference between interspecific competition and intraspecific competition?

Describe examples of keystone species (Sea stars, beavers and the gray wolf)

Discuss primary succession compared to secondary succession (include pioneer species)

Compare and contrast global warming vs the greenhouse effect

Ozone layer and CFCs

Name some ways that humans can live sustainably