Environmental Science Exam Outline

M. O'Keefe (June 2016)

Total of 139 points

25 Multiple Choice, 21 Matching PLUS 18 Crossword, 13 short response, 1 small essay

Ecologist, Ethical consumerism, environmental science, stewardship, stainable yield, habitat destruction, urbanization, externality, biodiversity, ecological specification, environmental refugee, ecological restoration, environmental degradation, ecosystem services, Population Density, speciation, Physiological, Structural and Behavioral Adaptations, Consumers, Producers, Scavenger, Omnivore, Carnivore, Herbivore, Ecocentric, biocentric, anthropocentric, Niche, Habitat, trophic level, food webs, Darwin, gene, genetic variability, mutation, Symbiosis, parasitism, mutualism, commensalism ,demographer (a person that studies populations), biotic potential , census, population, community, ecosystem, biome, organism, biosphere, species, organ, cell, organ system, tissue

*Biotic/Abiotic Factors in the ecosystem

*Pyramids (Numbers, Biomass, Energy – Which can be inverted?)

*Photosynthesis

> **Carbon dioxide + Water → Glucose (a sugar) + oxygen**

*List the levels of organization used by biologists in order

*Matching of Nutrient Cycles

- Know what each involves (Carbon, Nitrogen, Phosphorus) , MUST know Carbon is the building block of all living things.

*Define and provide example of each

- Adaptation, Behavioral, Structural, Physiological

*7 classifications of Species at risk (List)

 *From the 7 environmental problems caused by humans that disrupt the natural cycles (know 2 of them). Explain one and the article or video we watch in class about it.

*Given a food web (Know producers, write food chains, trophic levels what would happen if I removed a animal)

*Using a formula to calculate

Formulas		
population = habitat area x population density	$P = \dfrac{T_F T_L}{M}$	$A = P(1+r)^t$

*Label the water cycle using the following words capillarity, condensation, evaporation, percolation, precipitation, surface runoff, transpiration

*Label the logistic curve

*4 factors that that affect population size

*Complete the diagram to show the **types of organisms** found in food webs given the following words 9Know examples of each)

- Autotroph, Carnivore, Decomposer, Detrivore, Herbivore, Heterotroph, Omnivore, Scavenger

*You will be given a reading about an environmental issue and will be asked to answer questions regarding the reading.