APES TEST HINTS

Abiotic factors Aerobic vs. anaerobic Autotrophs / producers Atmospheric gases Biogeochemical cycles (all - important steps, formulas) Biomass Biomes –examples and characteristics Biosphere – examples and characteristics **Biotic factors** Calorie unit Climate Cyanobacteria Denitrification Detritus Detritus feeders and decomposers Ecotone Energy Entropy Fecal waste - fate of, characteristics

Food Chain Food Web Heterotrophs / consumers Laws of Conservation of Mass / Energy Legumes Microclimate Minerals Nitrogen fixation Optimal range Organic vs. inorganic Photosynthesis - process and efficiency (<10%, more like 2%) Population vs. community vs. ecosystem Population density Range of tolerance **Species** Solution components Ten Percent Rule Trophic levels (biomass pyramid)

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