

BIOLOGY 20_ **FINAL EXAM REVIEW**

Units A and B: Energy & Matter Exchange in the Biosphere Ecosystems & Population Change

Some key terms to know:

biosphere	ozone	binomial nomenclature	biotic
abiotic	nitrogen-fixing bacteria	transpiration	inherited character.
albedo	overproduction	intraspecific competition	species
greenhouse effect	population	biotic potential	community
natural selection	ecosystem	mutations	nitrogen cycle
leaching	taxonomy	nitrogen fixation	denitrifying bacteria
producers	consumers	heterotrophs	autotrophs
decomposers	trophic level	decomposers	carnivores
herbivores	omnivores	interspecific competition	acquired character.
food web	pyramid of numbers	pyramid of energy	pyramid of biomass
biological magnification	biome	adaptation	analogous structure
homologous structure	carrying capacity	evolution	dissolved oxygen

1. Define the hierarchy of: organism, species, population, community, ecosystem, biome, biosphere.
2. List several biotic and abiotic factors of terrestrial and aquatic environments. Identify different types of relationships (ex. predator-prey, interferterspecific competition).
3. Identify density-dependent and density-independent limiting factors of an ecosystem.
4. Draw a food web showing the trophic levels and label producers, consumers and decomposers. How is this different from a food chain?
5. Describe the different types of food pyramids.
6. Write out the First and Second Laws of Thermodynamics and know how to apply them.
7. What is biological magnification (biological amplification)? Which animals are most at risk from biological magnification? Why?
8. Explain the carbon/oxygen cycle.
9. Explain the greenhouse effect and how it relates to global warming.
10. Draw the nitrogen cycle making sure you include the organisms (bacteria) involved in it.
11. Name the processes of the hydrologic cycle and explain what each does.
12. What is eutrophication? How are the phosphorous and nitrogen cycles involved?
13. Identify the groups used in taxonomy. What is binomial nomenclature?
14. Describe evidence for evolution.
15. Know the theories of Malthus, Lamarck.
16. Explain the 6 points of Darwin's theory of evolution.

Unit C: Photosynthesis & Cellular Respiration

Some key terms to know:

chlorophyll	chloroplasts	thylakoid membrane	grana
stroma	photosystems	photolysis	chemiosmosis
cellular respiration	glycolysis	fermentation	aerobic
Kreb's cycle	anaerobic	electron transport	lactic acid
NADH and NADPH	ATP		

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DJ Losen



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