

Test: Ecology**Form Abiotic**

1. Species that serve as early warnings of environmental damage are called
A. nonnative species B. keystone species
C. specialist species D. indicator species E. generalists
2. The form of nitrogen that plants can use directly is
A. ammonia B. nitrites C. nitrates D. N₂ gas E. methane
3. Photosynthesis
A. Converts glucose into energy and water.
B. Requires the combustion of carbon.
C. Yields glucose and oxygen gas as products.
D. Produces carbon dioxide and oxygen gas
E. Yields glucose and carbon dioxide gas as products
4. In the field, you observe a lion chase, kill, and eat a gazelle. A vulture pecks away at the left over meat scraps. Beetles attack the remaining fragments. Finally, bacteria complete the breakdown and recycling of organic material. If you were to apply a general classification to the feeders, what would be the correct sequence?
A. decomposer → scavenger → detritus feeder → carnivore
B. carnivore → detritus feeder → scavenger → decomposer
C. carnivore → scavenger → detritus feeder → decomposer
D. carnivore → scavenger → decomposer → detritus feeder
E. scavenger → decomposer → carnivore → detritus feeder
5. Aerobic respiration requires
A. glucose and oxygen
B. glucose and carbon dioxide
C. oxygen and water
D. carbon dioxide and water
E. ATP and carbon dioxide
6. The "ironclad" ecological pyramid with no exceptions is the pyramid of
A. numbers B. biomass C. energy D. productivity E. consumption
7. The pyramid which best explains why there are typically only four to five links in a food chain is the pyramid of
A. numbers B. biomass C. energy D. matter E. productivity
8. Which of the following ecosystems has the highest level of kilocalories per square meter per year?
A. open ocean B. lakes and streams E. prairies
C. agricultural land D. tropical rain forest
9. Carbon is a major component of
A. atmospheric gases B. all rocks
C. the oceans D. organic compounds E. fresh water
10. Earth's chemical cycles connect life of the present to life of the
A. present B. past C. future D. present, past and future