

Alternative End-of-Chapter Assessment

Multiple Choice

For numbers 1-5, choose the best answer

1. Humans have the same body symmetry as:
a) planarians b) frogs c) earthworms d) hermit crabs
e) all of the above
2. Decomposers can get nutrients from:
a) plants only b) animals only c) other decomposers
d) all of the above
e) none of the above
3. If food chain A has three organisms and food chain B has four organisms, which of the following statements is the best answer?
a) There was more heat lost in food chain B than in food chain A.
b) There was more heat lost in food chain A than in food chain B.
c) Both food chains A and B lost the same amount of heat into the environment.
d) Both food chains A and B started with a producer.
e) (a) and (d) are both true.
4. Which of the following makes up the growth rate?
a) natality b) mortality c) immigration
d) all of the above
e) none of the above
5. Invasive species are:
a) native species b) nonnative species c) predators
d) never plants
e) always animals

True or False

For numbers 6-10

6. The succession that occurs after a volcanic eruption is primary succession.
7. Plants lose water through transpiration.
8. Plants make their own food using oxygen and water.
9. Animals get their nitrogen and phosphorous from the plants.
10. Plants do both photosynthesis and respiration.

Written Response

For numbers 11-20

11. How do plants obtain the nitrogen they need when they cannot use the nitrogen in the atmosphere?
12. Explain why photosynthesis and cellular respiration go together.
13. Describe how humans can negatively impact the water cycle.
14. Differentiate primary and secondary succession.
15. What evidence indicates that there is competition taking place among the plants in a natural setting?
16. How do limiting factors play a role in the extinction of a population?
17. Explain the transfer of energy in a food chain using the laws of thermodynamics.
18. How important are the decomposers in a biological community?
19. Why is maintaining biodiversity important?
20. Using what you learned about the nitrogen cycle, explain why it is a good practice to aerate lawns.