

Test: Dynamics of an Ecosystem

Part A: Fill-in-the-Blank

Word Bank

ecosystem population community habitat producer
consumer decomposer energy

1. An _____ is made up of living and nonliving things interacting in an environment.
2. A group of organisms of the same species living in the same area is called a _____.
3. All the different populations living together in an area form a _____.
4. The natural place where an organism lives is its _____.
5. A(n) _____ makes its own food through photosynthesis.
6. A(n) _____ obtains energy by eating other organisms.
7. A(n) _____ breaks down dead organisms and returns nutrients to the environment.
8. Most ecosystems get their _____ from the Sun.

Part B: Multiple Choice: Choose the best answer for each question.

9. Which of the following is a producer?
 - a. Mushroom
 - b. Grass
 - c. Hawk
 - d. Snake
10. Which organism is a decomposer?
 - a. Tree
 - b. Rabbit
 - c. Fungus
 - d. Grasshopper
11. What is the main source of energy for most ecosystems?
 - a. Water
 - b. Soil
 - c. Sunlight
 - d. Wind
12. A rabbit eating grass is an example of:
 - a. Producer
 - b. Decomposer
 - c. Herbivore
 - d. Carnivore
13. Which term describes all living organisms in an area?
 - a. Habitat
 - b. Population
 - c. Community
 - d. Climate
14. What happens when the population of predators increases?
 - a. Prey populations may decrease.
 - b. Producers disappear immediately.
 - c. The ecosystem stops functioning.
 - d. Energy is no longer transferred.

15. Which of the following is a biotic factor?
- Water
 - Sunlight
 - Temperature
 - Bird
16. Which of the following is an abiotic factor?
- Grass
 - Bacteria
 - Soil
 - Deer
17. Energy moves through an ecosystem by:
- Food chains and food webs
 - Weather patterns
 - Rock formations
 - Water cycles only
18. Which statement best describes a food web?
- A single feeding relationship
 - A network of interconnected food chains
 - A habitat for animals
 - A producer-only system
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Part C: True or False: Write T or F

19. ____ Producers are the foundation of most food chains.
20. ____ Decomposers help recycle nutrients in ecosystems.
21. ____ All organisms in an ecosystem are completely independent of one another.
22. ____ A population consists of members of the same species.
23. ____ Abiotic factors are nonliving parts of an ecosystem.
24. ____ Energy is recycled in an ecosystem forever.
25. ____ Food webs show multiple feeding relationships.
26. ____ Changes in one population can affect other populations in an ecosystem.
27. ____ Consumers make their own food using sunlight.
28. ____ Healthy ecosystems depend on interactions between living and nonliving factors.
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