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.

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15. Which of the following is a biotic factor?
    a. Water
    b. Sunlight
    c. Temperature
    d. Bird

16. Which of the following is an abiotic factor?
    a. Grass
    b. Bacteria
    c. Soil
    d. Deer

17. Energy moves through an ecosystem by:
    a. Food chains and food webs
    b. Weather patterns
    c. Rock formations
    d. Water cycles only

18. Which statement best describes a food web?
    a. A single feeding relationship
    b. A network of interconnected food chains
    c. A habitat for animals
    d. A producer-only system

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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