

How Organisms Interact with Living & Non-Living Environment Quiz

Part I – Multiple Choice

1. What is an organism's environment?
 - A. Only the other animals around it
 - B. Everything living & non-living that surrounds it
 - C. Only the weather in an area
 - D. Only the plants in an area
2. Which of the following is a **biotic** factor?
 - A. Sunlight
 - B. Water
 - C. Temperature
 - D. A tree
3. Which of the following is an **abiotic** factor?
 - A. Bacteria
 - B. Grass
 - C. Water
 - D. Deer
4. What does the term **biotic** refer to?
 - A. Non-living parts of an environment
 - B. Living parts of an environment
 - C. Weather conditions only
 - D. Physical features only
5. What does the term **abiotic** refer to?
 - A. Living organisms
 - B. Animals only
 - C. Non-living parts of an environment
 - D. Plants only
6. Which of the following is an example of an organism interacting with a non-living factor?
 - A. A lion hunting a zebra
 - B. Bees pollinating flowers
 - C. A plant using sunlight to make food
 - D. Two birds competing for food
7. Which interaction occurs when two organisms both benefit?
 - A. Competition
 - B. Mutualism
 - C. Predation
 - D. Parasitism
8. What is **predation**?
 - A. Two organisms help each other
 - B. Organisms compete for the same resource
 - C. One organism hunts & eats another organism
 - D. When an organism depends on sunlight
9. Two squirrels fighting over the same food source are demonstrating:
 - A. Competition
 - B. Mutualism
 - C. Predation
 - D. Decomposition
10. A tick feeding on a dog is an example of:
 - A. Mutualism
 - B. Parasitism
 - C. Competition
 - D. Photosynthesis
11. What is a **producer**?
 - A. An organism that makes its own food
 - B. An organism that only eats animals
 - C. An organism that breaks down dead material
 - D. An organism that cannot obtain energy
12. Which organism is most likely a producer?
 - A. Hawk
 - B. Mushroom
 - C. Grass
 - D. Rabbit
13. What role do decomposers play in an ecosystem?
 - A. They produce sunlight.
 - B. They break down dead organisms and recycle nutrients.
 - C. They hunt other animals.
 - D. They compete with plants for sunlight.
14. Which of the following is an example of a decomposer?
 - A. Mushroom
 - B. Eagle
 - C. Deer
 - D. Oak tree
15. What is a **habitat**?
 - A. A group of identical organisms
 - B. The place where an organism lives and obtains what it needs
 - C. A relationship between two organisms
 - D. A type of weather pattern
16. Which resource is necessary for most organisms to survive?
 - A. Water
 - B. Plastic
 - C. Metal
 - D. Glass
17. What happens when organisms compete?
 - A. They always help each other.
 - B. They try to obtain the same limited resource.
 - C. They stop interacting with their environment.
 - D. They become decomposers.
18. Which of the following is a **biotic factor** in a pond ecosystem?
 - A. Temperature
 - B. Sunlight
 - C. Fish
 - D. Water
19. Which of the following is an **abiotic factor** in a forest ecosystem?
 - A. Trees
 - B. Deer
 - C. Fungi
 - D. Soil
20. Why are organisms dependent on their environment?
 - A. Their environment provides resources needed for survival.
 - B. Organisms never interact with their environment.
 - C. Only animals need an environment.
 - D. Environments provide food only.

Part II – True or False

Directions: Write **True** or **False** on the line.

21. ____ Biotic factors are the living parts of an ecosystem.
 22. ____ Sunlight is a biotic factor.
 23. ____ Water is an abiotic factor.
 24. ____ Organisms can interact with both living and non-living parts of their environment.
 25. ____ Competition occurs when organisms need the same limited resources.
 26. ____ Predation benefits both the predator and the prey equally.
 27. ____ Producers can make their own food.
 28. ____ Decomposers help recycle nutrients in an ecosystem.
 29. ____ Temperature can affect where an organism is able to live.
 30. ____ All organisms have exactly the same environmental needs.
-

Part III – Matching

Directions: Match each term in Column A with the correct definition in Column B.

Column A

Column B

- | | |
|-------------------------|---|
| 31. ____ Biotic factor | A. An organism that obtains energy by consuming other organisms |
| 32. ____ Abiotic factor | B. A relationship in which both organisms benefit |
| 33. ____ Producer | C. A living part of an ecosystem |
| 34. ____ Consumer | D. A non-living part of an ecosystem |
| 35. ____ Decomposer | E. An organism that breaks down dead matter |
| 36. ____ Competition | F. The place where an organism lives and gets its needs met |
| 37. ____ Predation | G. An interaction in which one organism hunts and eats another |
| 38. ____ Mutualism | H. An organism that makes its own food |
| 39. ____ Parasitism | I. A relationship in which one organism benefits while the other is harmed |
| 40. ____ Habitat | J. A struggle between organisms for limited resources |
-