

How Organisms Interact with Living & Non-Living Environment Quiz

Part I – Multiple Choice

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

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

Column A

Column B

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|-------------------------|---|
| 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 |
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