

Ecosystems Quiz Answer Key PDF

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How do symbiotic relationships affect the balance of an ecosystem? Provide examples.

Symbiotic relationships, such as mutualism, commensalism, and parasitism, help maintain ecosystem balance by influencing population dynamics and resource distribution. For example, bees pollinate flowers (mutualism), benefiting both species.

What are the main differences between primary and secondary succession?

Primary succession occurs in lifeless areas with no soil, starting with pioneer species, while secondary succession occurs in areas where a disturbance has destroyed a community but left the soil intact.

In what ways can biodiversity contribute to the resilience of an ecosystem?

Biodiversity enhances ecosystem resilience by providing a variety of species that can adapt to changes, maintain ecosystem functions, and recover from disturbances, ensuring stability and productivity.

Describe the impact of deforestation on terrestrial ecosystems and biodiversity.

Deforestation leads to habitat loss, reducing biodiversity by eliminating species that depend on forest environments. It also disrupts carbon storage, contributing to climate change.

Discuss how human activities can disrupt nutrient cycling in aquatic ecosystems.

Human activities, such as agriculture and industrial pollution, introduce excess nutrients into water bodies, leading to eutrophication. This disrupts nutrient cycling and can cause algal blooms, depleting oxygen and harming aquatic life.

What is the primary source of energy for most ecosystems?



A. Water
B. Sunlight ✓
C. Soil
D. Wind
Which type of ecosystem is characterized by having a high salt concentration?
A. Freshwater
B. Marine ✓
C. Desert
D. Forest
Which organisms are typically considered primary consumers? (Select all that apply)
A. Her b ivores ✓
B. Carnivores
C. Omnivores ✓
D. Producers
Which factors can lead to changes in population dynamics? (Select all that apply)
A. Birth rates ✓
B. Migration ✓
C. Symbiotic relationships
D. Climate change ✓
2. Omnate change v
What are the characteristics of a desert ecosystem? (Select all that apply)
A. High rainfall
B. Low humidity ✓
C. Sparse vegetation ✓
D. Extreme temperatures ✓
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Explain the role of producers in an ecosystem and why they are crucial for energy flow.



Producers, such as plants, are organisms that create their own food through photosynthesis, converting sunlight into energy. They form the base of the food chain, providing energy for all other organisms in the ecosystem.

What is the term for the variety of ecosystems within a given region?
A. Genetic diversity
B. Species richness
C. Ecosystem diversity ✓
D. Population dynamics
Which of the following is an example of a terrestrial ecosystem?
A. Coral reef
B. River
C. Grasslands ✓
D. Ocean
What is the initial stage of ecological succession in a lifeless area called?
A. Secondary succession
B. Primary succession ✓
C. Climax community
D. Pioneer stage
Which of the following are considered abiotic components of an ecosystem? (Select all that apply)
A. Temperature ✓
B. Animals
C. Soil ✓
D. Plants
Which process involves the movement of nutrients through an ecosystem?
A. Energy flow
B. Nutrient cycling ✓

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C. Photosynthesis



D. Evaporation

Which of the following is a biotic component of an ecosystem?

- A. Rocks
- B. Water
- C. Plants ✓
- D. Sunlight

What role do decomposers play in an ecosystem?

- A. Produce food
- B. Consume producers
- C. Break down dead material ✓
- D. Compete for resources

Which practices contribute to ecosystem conservation? (Select all that apply)

- A. Deforestation
- B. Sustainable agriculture ✓
- C. Pollution control ✓
- D. Overfishing

What are some effects of climate change on ecosystems? (Select all that apply)

- A. Increased biodiversity
- B. Habitat loss ✓
- C. Alter ed food webs ✓
- D. Stable temperatures