

Ecology Quiz PDF

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What term describes the role an organism plays in its environment?

- Habitat
- Niche
- Ecosystem
- Biome

Which biome is characterized by having the highest biodiversity?

- Desert
- Tundra
- Rainforest
- Grasslands

Which of the following is a primary consumer in a food chain?

- Grass
- Rabbit
- Fox
- Eagle

Which strategies are effective for conserving biodiversity? (Select all that apply)

- Establish protected areas
- Deforestation
- Pollution control
- Habitat restoration

Describe the process of primary succession and provide an example of where it might occur.

Discuss the impact of invasive species on native ecosystems and provide an example.

Which organisms are considered decomposers? (Select all that apply)

- Fungi
- Bacteria
- Herbivores
- Carnivores

Which type of succession occurs after a forest fire?

- Primary succession
- Secondary succession
- Tertiary succession
- Climax succession

Which of the following are considered greenhouse gases? (Select all that apply)

- Methane
- Oxygen
- Carbon dioxide
- Nitrogen

What are the main differences between renewable and non-renewable resources? Provide examples of each.

What is the main cause of ocean acidification?

- Overfishing
- Plastic pollution
- Carbon dioxide emissions
- Oil spills

Which of the following is a non-renewable resource?

- Solar energy
- Wind energy
- Coal
- Biomass

How does climate change affect marine ecosystems? Provide specific examples.

Which of the following are abiotic factors in an ecosystem? (Select all that apply)

- Temperature
- Plants
- Water
- Animals

What is the primary source of energy for most ecosystems?

- Wind
- Water
- Sunlight
- Soil

What are the consequences of deforestation? (Select all that apply)

- Loss of biodiversity
- Increased carbon sequestration
- Soil erosion
- Climate change

Outline the steps involved in the nitrogen cycle and explain its importance to ecosystems.

What is the process called when a community of organisms changes over time?

- Evolution
- Adaptation
- Succession
- Migration

Explain the concept of carrying capacity and its significance in population ecology.

Which of the following are characteristics of a desert biome? (Select all that apply)

- High rainfall
- Low humidity
- Extreme temperatures
- Sparse vegetation