

# **Ecology Practice Quiz PDF**

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#### What is the primary role of producers in an ecosystem?

- Decompose organic matter
- O Produce their own food through photosynthesis
- Compete for resources
- Consume other organisms

#### Which of the following are considered abiotic factors in an ecosystem?

- Sunlight
- Temperature
- Plants
- 🗌 bacteria

# Explain the difference between a food chain and a food web. Provide examples to illustrate your explanation.

### What is the term for the maximum population size that an environment can sustain?

- Limiting factor
- O Exponential growth
- Niche
- Carrying capacity

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### Which of the following interactions are examples of symbiosis?

- Mutualism
- Commensalism
- Competition
- Predation

Discuss the importance of biodiversity in maintaining ecosystem resilience. Include examples of how biodiversity can benefit human societies.

# In which type of growth pattern does a population grow rapidly at first and then level off as it reaches carrying capacity?

O Exponential growth

- Linear growth
- Cyclical growth
- Logistics growth

# Which of the following are components of the nitrogen cycle?

- Nitrogen fixation
- Denitrification
- Carbon sequestration
- Photosynthesis

Describe the role of decomposers in an ecosystem and explain how they contribute to nutrient cycling.

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# What is a niche in an ecological context?

- The physical environment where an organism lives
- A type of symbiotic relationship
- The maximum population size an environment can sustain
- $\bigcirc$  The role or function of an organism within its ecosystem

# Which of the following are threats to biodiversity?

Habitat destruction

- Symbiosis
- Climate change
- Overfishing

Analyze how human activities can impact the carbon cycle. Provide specific examples and suggest potential solutions to mitigate these impacts.

#### What is the primary role of consumers in an ecosystem?

- O Produce energy through photosynthesis
- O Break down dead organic matter
- Cycle nutrients back into the soil
- Consume other organisms for energy

#### Which of the following processes are involved in the carbon cycle?

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Photosynthesis

Nitrogen fixation

Combustions

Respiration

Evaluate the effectiveness of protected areas as a conservation strategy. Discuss potential challenges and benefits.

# What is the term for a close and long-term biological interaction between two different biological organisms?

○ Competition

O Predation

○ Parasitism

◯ Symbiosis

#### Which of the following are considered biotic factors in an ecosystem?

Soil

Animals

Plants

Water

# Explain how limiting factors can affect population dynamics. Provide examples of both biotic and abiotic limiting factors.

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### What is the primary role of decomposers in an ecosystem?

- Compete for resources
- O Produce energy through photosynthesis
- Consume other organisms for energy
- Break down dead organic matter

## Which of the following are examples of mutualist relationships?

- Bees pollinating flowers
- Clownfish living in sea anemones
- Birds eating insects off a rhino's back
- Lions hunting zebras

# Discuss the role of conservation efforts in mitigating the effects of climate change. Include examples of specific strategies and their potential impact.

### Which nutrient cycle involves the conversion of nitrogen between its various chemical forms?

- Carbon cycle
- Water cycle
- O Phosphorus cycle
- O Nitrogen cycle

### Which of the following are characteristics of a desert ecosystem?

- High rainfall
- Low biodiversity
- Extreme temperatures
- Abundant vegetation

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# Analyze the impact of invasive species on native ecosystems. Discuss how they can alter ecological balance and suggest management strategies to control their spread.

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