

## Biodiversity Quiz Answer Key PDF

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#### Which index is commonly used to measure biodiversity?

- A. Richter Scale
- B. Shannon Index ✓**
- C. Beaufort Scale
- D. Fujita Scale

#### Explain why biodiversity is important for human survival.

**A diverse range of species contributes to ecosystem stability, food security, and the availability of medicines, all of which are crucial for human survival.**

#### What does genetic diversity refer to?

- A. Variety of ecosystems
- B. Differences within species ✓**
- C. Number of species in an area
- D. Climate variation

#### Which of the following is a major threat to biodiversity?

- A. Sustainable agriculture
- B. Habitat destruction ✓**
- C. Renewable energy
- D. Ecotourism

#### Describe the role of community engagement in biodiversity conservation.

**Community engagement plays a vital role in biodiversity conservation by involving local populations in decision-making processes, promoting sustainable practices, and ensuring that conservation**

**strategies are aligned with the needs and values of the community.**

**Which species are often most affected by invasive species?**

- A. Native species ✓**
- B. Endangered species ✓**
- C. Invasive species themselves
- D. Migratory species ✓**

**Discuss how overexploitation can lead to biodiversity loss.**

**Overexploitation can lead to biodiversity loss by depleting species populations, causing extinctions, and disrupting ecosystems.**

**Which actions can help conserve biodiversity?**

- A. EstablishING national parks ✓**
- B. ImplementING sustainable fishing practices ✓**
- C. Promoting monoculture farming
- D. Enforcing anti-poaching laws ✓**

**How do biodiversity indices help in conservation efforts?**

**By quantifying species diversity and ecosystem health, biodiversity indices inform conservation priorities and strategies, helping to identify areas that require protection or restoration.**

**What is the main purpose of establishing protected areas?**

- A. To increase tourism
- B. To conserve biodiversity ✓**
- C. To promote urban development
- D. To restrict human access

**What are some effects of climate change on biodiversity?**

- A. Habitat alteration ✓**
- B. Increased species extinction ✓**

C. Enhanced genetic diversity

**D. Changes in species distribution ✓**

**Analyze the impact of human activities on biodiversity, providing examples.**

**Human activities have a profound negative impact on biodiversity, exemplified by deforestation in the Amazon, which results in habitat loss and species extinction.**

**Which of the following are considered levels of biodiversity?**

**A. Genetic diversity ✓**

**B. Species diversity ✓**

**C. Ecosystem diversity ✓**

D. Cultural diversity

**What strategies can be implemented to restore degraded ecosystems?**

**Strategies to restore degraded ecosystems include reforestation, wet restoration, soil amendment, controlling invasive species, and implementing sustainable agricultural practices.**

**Which type of diversity is crucial for species adaptability and survival?**

A. Ecosystem diversity

**B. Genetic diversity ✓**

C. Cultural diversity

D. Climate diversity

**What are common causes of habitat destruction?**

**A. Deforestation ✓**

**B. Urbanization ✓**

C. Conservation efforts

**D. Agriculture expansion ✓**

**What is the primary goal of the Convention on Biological Diversity?**

A. To promote deforestation

**B. To conserve biological diversity ✓**

C. To increase urbanization

D. To eliminate all invasive species

**Which of the following are ecosystem services provided by biodiversity?**

**A. Pollination ✓**

**B. Water purification ✓**

C. Air pollution

**D. Disease regulation ✓**

**What is biodiversity?**

**A. The variety of life on Earth ✓**

B. The study of plants

C. The process of evolution

D. The climate of a region

**Which of the following is an example of a biodiversity hotspot?**

A. Sahara Desert

**B. Amazon Rainforest ✓**

C. Arctic Tundra

D. Gobi Desert