

Conservation Biology Essentials

Science · Answer Key · 12 Questions

1. What is the term for the variety of all living things on Earth, including animals, plants, and microorganisms?

- A) Ecosystem
- B) Biodiversity**
- C) Habitat
- D) Extinction

2. Which of these factors is the leading cause of loss of biodiversity worldwide?

- A) Habitat destruction**
- B) Natural sleep cycles
- C) Changing seasons
- D) Wind patterns

3. What does the term 'extinct' mean when applied to a species?

- A) The species is protected in a zoo
- B) The species is migrating to a new area
- C) The species has no living members left**
- D) The species is endangered but recovering

4. What is a 'protected area' in conservation biology?

- A) A zoo where animals are sold
- B) A place where human activity is restricted to save nature**
- C) A laboratory for testing new medicines
- D) A residential area for human expansion

5. Which of these is an example of an invasive species that can harm local ecosystems?

- A) Native kangaroo
- B) Cane toad in Australia**
- C) Blue whale
- D) Koala

6. What is the primary role of a wildlife corridor?

- A) To keep animals in small cages
- B) To connect fragmented habitats to allow animal movement**
- C) To provide a place for tourists to feed animals
- D) To stop animals from reproducing

7. Why are bees considered 'keystone species' in many ecosystems?

- A) They are the largest animals in the forest
- B) They pollinate many plants that other species rely on**
- C) They control the weather patterns
- D) They live longer than most other insects

8. What is the main purpose of a seed bank?

- A) To grow food for livestock
- B) To preserve genetic diversity of plants for the future**
- C) To create new species of flowers
- D) To sell rare seeds for profit

9. What is 'habitat fragmentation'?

- A) When a forest grows larger
- B) When a habitat is broken into smaller, isolated pieces**
- C) When animals migrate to a new country
- D) When a species increases its population

10. Which organization is globally known for publishing the 'Red List' of threatened species?

- A) NASA
- B) United Nations
- C) International Union for Conservation of Nature (IUCN)**
- D) World Sports Federation

11. What is the 'buffer zone' in a nature reserve?

- A) The area where mining is encouraged
- B) A zone that separates protected areas from human development**
- C) A fence that prevents birds from flying
- D) The center of the reserve where no one enters

12. How do wetlands contribute to conservation?

- A) They act as natural water filters and flood control**
- B) They provide space for building cities
- C) They increase the amount of salt in the ocean
- D) They dry out the land to prevent plant growth