

Conservation Biology Fundamentals

Biology · Answer Key · 18 Questions

1. What term describes the total variety of life forms, including species and ecosystems, in a given area?

- A) Taxonomy
- B) Biodiversity**
- C) Succession
- D) Adaptation

2. Which of the following is the primary cause of modern biodiversity loss?

- A) Volcanic eruptions
- B) Habitat destruction**
- C) Natural climate cycles
- D) Over-pollination

3. What is an invasive species?

- A) A species native to a protected park
- B) A species introduced to an environment where it becomes harmful**
- C) A species that is endangered in the wild
- D) A species that is strictly herbivorous

4. Which international organization maintains the 'Red List' of threatened species?

- A) IUCN**
- B) WHO
- C) NASA
- D) UNICEF

5. What is a biological corridor?

- A) A zoo enclosure
- B) A path connecting two fragmented habitats**
- C) A migration route for birds
- D) A method of waste disposal

6. Which term refers to the variety of genes within a single species?

- A) Genetic diversity**
- B) Species richness
- C) Ecosystem stability
- D) Phenotypic plasticity

7. What is an 'endemic' species?

- A) A species that migrates seasonally
- B) A species found in only one specific geographic location**
- C) A species that has gone extinct
- D) A species that relies on humans for survival

8. Which of these is a major consequence of deforestation?

- A) Increased oxygen production
- B) Increased soil erosion**
- C) Cooling of the local climate
- D) Increased forest density

9. What is the 'IUCN Red List' category for a species facing an extremely high risk of extinction in the wild?

- A) Least Concern
- B) Near Threatened
- C) Critically Endangered**
- D) Data Deficient

10. What is the goal of captive breeding programs?

- A) To produce pets for the public
- B) To study animal behavior in labs
- C) To increase populations of endangered species**
- D) To train animals for zoos

11. Which human activity contributes most significantly to global warming and subsequent habitat loss?

- A) Recycling paper
- B) Burning fossil fuels**
- C) Organic gardening
- D) Walking to work

12. What is 'in-situ' conservation?

- A) Conserving species within their natural habitat**
- B) Conserving species in zoos
- C) Conserving species in seed banks
- D) Conserving species in laboratories

13. What term refers to the illegal hunting or harvesting of wild animals?

- A) Poaching**
- B) Sustainable fishing
- C) Conservation
- D) Domestication

14. Which gas, when increased in the atmosphere, is a primary driver of ocean acidification?

- A) Nitrogen
- B) Oxygen
- C) Carbon dioxide**
- D) Helium

15. What is an 'indicator species'?

- A) A species that is extinct
- B) A species whose health reflects the status of its ecosystem**
- C) A species that is only found in cities
- D) A species that feeds on other species

16. Which of the following is an example of a renewable resource?

- A) Coal
- B) Natural gas
- C) Solar energy**
- D) Petroleum

17. What is ecosystem services?

- A) Services provided by humans to nature
- B) Benefits humans derive from healthy ecosystems**
- C) The cost of maintaining a park
- D) The process of plant decomposition

18. What is the role of a seed bank?

- A) To store money for parks
- B) To preserve genetic diversity of plant species**
- C) To provide food for birds
- D) To grow crops for commercial sale