

## CHAPTER 19

### BioDiversity

1. What term describes the variety of different species in a given area?
  - a) Ecosystem diversity
  - b) Genetic diversity
  - c) Species diversity
  - d) Habitat diversity
  
2. Which of the following is a major cause of biodiversity loss?
  - a) Climate change
  - b) Pollution
  - c) Habitat destruction
  - d) All of the above
  
3. The practice of protecting and preserving natural resources and ecosystems is known as:
  - a) Conservation
  - b) Exploitation
  - c) Urbanization
  - d) Deforestation
  
4. Which term refers to the loss of a species from a particular habitat or from the entire planet?
  - a) Extinction
  - b) Endangerment
  - c) Overexploitation
  - d) Fragmentation
  
5. Which international agreement aims to protect biodiversity globally?
  - a) Kyoto Protocol
  - b) Convention on Biological Diversity (CBD)
  - c) Paris Agreement

d) Montreal Protocol

6. What is the primary goal of in-situ conservation?

- a) To protect species in their natural habitats
- b) To breed endangered species in captivity
- c) To create botanical gardens
- d) To monitor species in their natural environment

7. Which of the following is a benefit of biodiversity?

- a) Enhanced ecosystem resilience
- b) Increased risk of disease
- c) Decreased productivity
- d) Reduced ecosystem services

8. Which of the following is an example of biodiversity hotspot?

- a) Amazon Rainforest
- b) Sahara Desert
- c) Arctic Tundra
- d) Great Plains

9. The concept of 'sustainable development' includes:

- a) Balancing environmental, economic, and social needs
- b) Maximizing resource extraction
- c) Ignoring environmental impacts
- d) Prioritizing industrial growth

10. What does the term 'endangered species' refer to?

- a) Species at risk of extinction
- b) Species with stable populations
- c) Species introduced to a new habitat
- d) Species with large populations

11. Which conservation strategy involves creating protected areas such as national parks and wildlife reserves?

- a) In-situ conservation
- b) Ex-situ conservation
- c) Restoration
- d) Reforestation

12. Which of the following is NOT a method of ex-situ conservation?

- a) Wildlife sanctuaries
- b) Botanical gardens
- c) Seed banks
- d) Zoos

13. Which concept describes the deliberate introduction of species to new habitats to enhance biodiversity?

- a) Reintroduction
- b) Bioaugmentation
- c) Ecological restoration
- d) Habitat fragmentation

14. Which of the following is a key component of ecosystem management?

- a) Integrating conservation with land use planning
- b) Isolating ecosystems from human activity
- c) Limiting research and monitoring
- d) Prioritizing economic development

15. Which of the following practices is critical for preserving genetic diversity within species?

- a) Gene banks
- b) Habitat destruction
- c) Pollution control

d) Overhunting

16. What is the main objective of a conservation easement?

a) To protect private land from development

b) To increase agricultural production

c) To establish urban areas

d) To promote industrial expansion

17. Which term describes the reduction of a habitat into smaller, isolated patches?

a) Fragmentation

b) Overexploitation

c) Pollution

d) Invasive species

18. Which of the following is a threat to marine biodiversity?

a) Overfishing

b) Coral bleaching

c) Ocean acidification

d) All of the above

19. The practice of restoring damaged ecosystems to their original state is known as:

a) Ecological restoration

b) Habitat alteration

c) Environmental degradation

d) Pollution control

20. Which term refers to the introduction of non-native species into an ecosystem?

a) Invasive species

b) Native species

c) Endemic species

d) Keystone species

21. Which of the following strategies aims to preserve entire ecosystems rather than individual species?

- a) Ecosystem conservation
- b) Species-specific conservation
- c) Ex-situ conservation
- d) Genetic conservation

22. Which concept refers to the ability of an ecosystem to recover from disturbances?

- a) Resilience
- b) Resistance
- c) Adaptability
- d) Stability

23. Which type of diversity is measured by the variety of genetic material within a species?

- a) Genetic diversity
- b) Species diversity
- c) Ecosystem diversity
- d) Habitat diversity

24. Which of the following is an example of a conservation organization?

- a) World Wildlife Fund (WWF)
- b) United Nations Development Programme (UNDP)
- c) World Trade Organization (WTO)
- d) International Monetary Fund (IMF)

25. What is the primary focus of wildlife corridors?

- a) To connect fragmented habitats
- b) To increase urban development
- c) To enhance agricultural productivity
- d) To create protected marine areas

26. Which term describes the loss of biodiversity due to human activities?

- a) Anthropogenic extinction
- b) Natural extinction
- c) Ecological succession
- d) Evolutionary divergence

27. Which practice is essential for maintaining biodiversity in agricultural systems?

- a) Crop rotation
- b) Monoculture farming
- c) Intensive pesticide use
- d) Land conversion

28. Which of the following is a key characteristic of an endangered species?

- a) Small population size
- b) High reproductive rate
- c) Wide distribution
- d) Stable habitat

29. The process of integrating conservation efforts with local community needs is known as:

- a) Community-based conservation
- b) Top-down conservation
- c) Centralized conservation
- d) Exclusive conservation

30. Which term refers to a species that has a disproportionately large effect on its environment?

- a) Keystone species
- b) Indicator species
- c) Umbrella species
- d) Flagship species

31. What does the term 'biodiversity hotspot' refer to?
- a) An area with high levels of species diversity and threat
  - b) A location with minimal human impact
  - c) A region with stable climate conditions
  - d) An area with uniform species distribution
32. Which of the following activities is most likely to contribute to habitat destruction?
- a) Logging
  - b) Ecotourism
  - c) Sustainable agriculture
  - d) Conservation efforts
33. The concept of 'carrying capacity' refers to:
- a) The maximum population size that an environment can sustain
  - b) The average number of species in an ecosystem
  - c) The rate at which resources are consumed
  - d) The level of pollution an ecosystem can handle
34. Which of the following is a benefit of preserving wetland ecosystems?
- a) Water filtration
  - b) Flood control
  - c) Habitat for wildlife
  - d) All of the above
35. Which of the following best describes a 'protected area'?
- a) A region designated for conservation and management
  - b) An area used for industrial activities
  - c) A zone for urban development
  - d) A site for agricultural expansion
36. Which term describes the practice of managing natural resources to prevent depletion?

- a) Sustainable use
- b) Overexploitation
- c) Habitat loss
- d) Resource depletion

37. Which of the following is an example of a policy aimed at conservation?

- a) Endangered Species Act
- b) Clean Air Act
- c) Safe Drinking Water Act
- d) National Environmental Policy Act

38. Which of the following is an example of a community-based conservation effort?

- a) Local wildlife protection programs
- b) Global biodiversity treaties
- c) International conservation organizations
- d) National park systems

39. The practice of planting native species to restore degraded habitats is known as:

- a) Reforestation
- b) Afforestation
- c) Ecological restoration
- d) Invasive species control

40. Which of the following is NOT a benefit of maintaining biodiversity?

- a) Increased ecosystem stability
- b) Enhanced ecosystem services
- c) Greater susceptibility to diseases
- d) Improved resilience to environmental changes

41. Which term describes species that are unique to a particular geographic area?

- a) Endemic species
- b) Migratory species



- c) Invasive species
- d) Cosmopolitan species

42. Which conservation strategy involves protecting large, contiguous areas of habitat?

- a) Landscape conservation
- b) Fragmented conservation
- c) Urban conservation
- d) Species-specific conservation

43. Which of the following is a major challenge in conserving marine biodiversity?

- a) Overfishing
- b) Ocean pollution
- c) Coral reef destruction
- d) All of the above

Coral reef destruction

44. Which of the following is an example of a non-governmental organization (NGO) involved in conservation?

- a) The Nature Conservancy
- b) International Red Cross
- c) United Nations Environment Programme
- d) World Health Organization

45. Which concept describes the reduction in genetic variation within a species due to a small population size?

- a) Genetic bottleneck
- b) Genetic drift
- c) Gene flow
- d) Mutation

46. Which of the following is an example of a conservation success story?

- a) The recovery of the Bald Eagle population
- b) The extinction of the Passenger Pigeon
- c) The decline of the Bengal Tiger
- d) The loss of the Great Barrier Reef

47. Which term refers to the process of reducing or eliminating the use of non-renewable resources?

- a) Sustainable development
- b) Resource depletion
- c) Overconsumption
- d) Environmental degradation

48. Which of the following practices helps to reduce the impact of human activities on biodiversity?

- a) Sustainable agriculture
- b) Urban sprawl
- c) Industrial pollution
- d) Deforestation

49. Which concept involves managing natural areas to ensure their ecological health and resilience?

- a) Ecosystem management
- b) Species management
- c) Genetic management
- d) Habitat management

50. Which of the following is an example of a conservation technique that involves protecting ecosystems rather than individual species?

- a) Habitat protection
- b) Captive breeding
- c) Species reintroduction

Genetic research

**Answer Key for Chapter 19 (Biodiversity and Conservation)**

1	2	3	4	5
C	D	A	A	B
6	7	8	9	10
A	A	A	A	A
11	12	13	14	15
A	A	A	A	A
16	17	18	19	20
A	A	D	A	A
21	22	23	24	25
A	A	A	A	A
26	27	28	29	30
A	A	A	A	A
31	32	33	34	35
A	A	A	D	A
36	37	38	39	40
A	A	C	C	A
41	42	43	44	45
A	A	D	A	A
46	47	48	49	50
A	A	A	A	A

