

Review: Chapter 5 Biodiversity

1. The number of known species is _____
Scientists estimate that there are _____ species.
2. #1 most abundant species _____
#2 most abundant species _____
#3 most abundant species _____
#4 most abundant species _____
#5 most abundant species _____
3. What are the 3 levels of biodiversity?
4. What is species diversity? Give an example
5. What is ecosystem diversity? Give an example.
6. What is genetic diversity? Give an example.
7. What are the 3 practical uses of biodiversity?
8. What percent of prescription drugs in the US were originally made from living things? _____
9. What are the 3 types of plants that the human population relies on for food?
10. Why is genetically modifying crops good for us?
11. Is genetic modification of crops a recent invention for us? Explain.
12. What is a keystone species? Give an example and why its considered a keystone species.

13. What are the 3 basic levels of vulnerability? What do they each mean?

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14. What is a mass extinction?

15. 1st - Ordovician-Silurian Mass Extinction: _____ largest wiped out _____

16. 2nd - Devonian Mass Extinction: _____ largest wiped out _____

17. 3rd - Permian Mass Extinction: _____ largest wiped out _____

18. 4th - Triassic-Jurassic Mass Extinction: _____ largest wiped out _____

19. 5th - Cretaceous-Tertiary Mass Extinction: famous for _____

20. The cause of all of the mass extinctions can be described as:

21. What is an endemic species?

22. What are biodiversity hotspots? How many are located around the world?

23. Explain the following *Threats to Biodiversity*:

Habitat destruction or loss

Conversion

Fragmentation

Simplification

Edge effect

24. What is poaching?

25. a. What are Exotic Species?

b. What are invasive species?

c. What are Non-native species?

d. How are non-native species different than invasive species?

26. Explain the 10% rule.

27. What is the cost of invasive species each year : in the U.S. _____
In Michigan _____

28. What is Michigan's greatest invasive species?

29. Reasons of loss of biodiversity: _____% Habitat destruction
_____% Hunting and poaching
_____% Invasive species
_____% Pollution

30. What is the most common reason species become endangered and threatened?

31. What is the second greatest threat to native species?

32. What are 3 ways that biodiversity is trying to be preserved?

33. What does the Endangered Species Act try to do?

34. What is CITES?

35. What is the difference between conservation and preservation?

36. What is the benefit of protecting entire ecosystems?

37. What is the purpose of captive breeding programs?

38. What is the purpose of seed banks?