

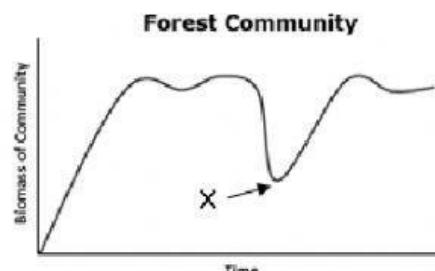
9. At the end of ecological succession, a stable community is reached. Which of the following best describes a climax community if it left alone?

A most of the biomass is in lichens C it changes very quickly
B it does not contain any animals D it remains until the climate changes

Use the graph to answer questions 10 – 11.

10. Which of the following scenarios could explain the drop in biomass labeled X in the graph to the right?

A Felled trees are replanted by humans
B A forest fire is started by lightning
C Bioaccumulation of toxins affects top predators
D Pollution in an ecosystem is drastically reduced



11. Based on the data in the graph, what will happen to an ecosystem after its climax community has been destroyed?

A It will proceed through the stages of succession until it returns to a stable community
B It will remain in a state of disarray and never recover from the natural disaster
C The community will recover, but the biodiversity will never be regained
D The original hardwood forest will forever be replaced by a softwood forest

12. Which statement best describes a pioneer population found in the beginning of ecological succession?

A They are completely heterotrophic. C They modify their environment.
B They do not appear until animals arrive. D They only exist in tropical biomes

13. Starting on *barren rock* what is the usual ecological succession of organisms?

A grasses → shrubs → lichens → trees C trees → shrubs → grasses → lichens
B lichens → shrubs → grasses → trees D lichens → grasses → shrubs → trees

Answer the following questions about populations, communities and ecosystems.

14. A student surveys her neighborhood and reports that it contains 6 dogs, 4 cats and 1 gerbil. This data best describes the -

A pet population B pet ecosystem C pet domain D pet community

15. Which of the following describes all of the living and abiotic factors in a geographical area?

A ecosystem B community C niche D population

16. Which of the sequences below is listed from the least complex to the most complex?

A ecosystem, community, population C population, community, ecosystem
B population, ecosystem, community D community, ecosystem, population

17. All of the members of one species that inhabit a specific area are called -

A a community B an ecosystem C a population D an organism

18. A plot of land contains soil, decomposers, producers, consistent rainfall, mild temperatures and a community of herbivores and carnivores. This set of data best describes -

A a community B an ecosystem C a population D an organ system