

Ecosystem Structure and Function Test Review

1.



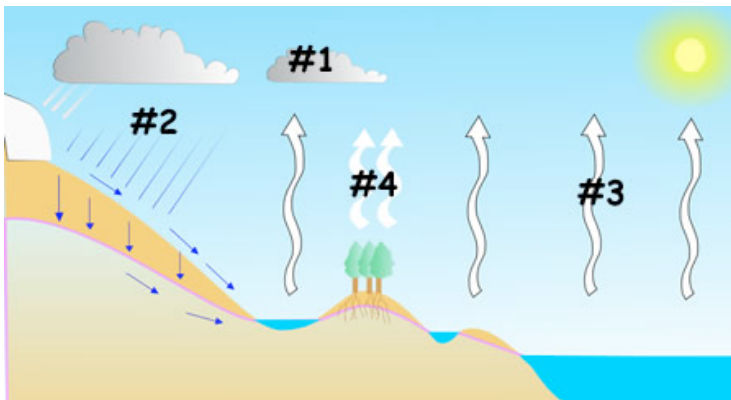
The food chain above shows

2. Ultimately, all of the energy in most food chains or food webs comes from
- 3.



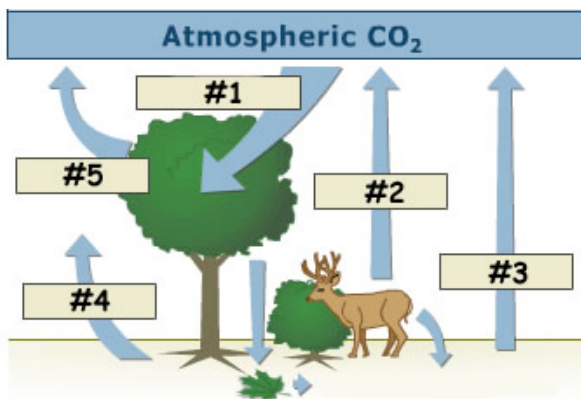
In a healthy ecosystem, trophic level "A" will be composed of

4.



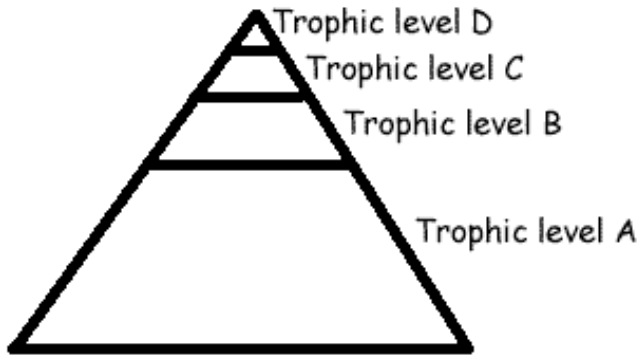
The water cycle process labeled #4 is

5.



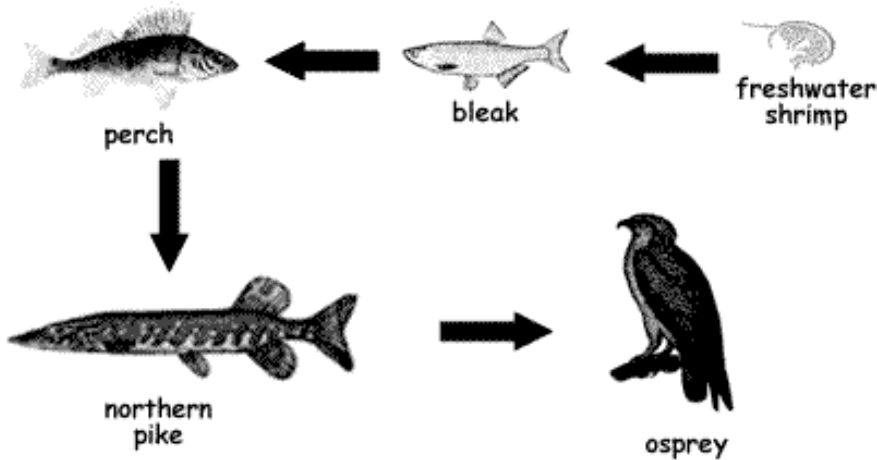
Processes #2 and #5 add carbon dioxide to the atmosphere by means of

6. A relationship between two organisms of different species in which one benefits, while the other neither benefits nor is harmed:
- 7.



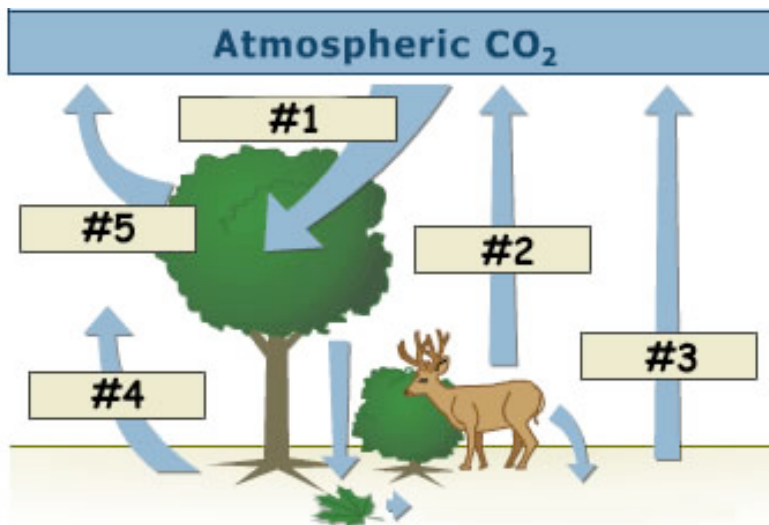
There is about 100x more energy stored in trophic level A than in

8. Organisms that can feed on autotrophs as well as on heterotrophs are known as
9. An organism that feeds only on heterotrophs is a(n)
- 10.



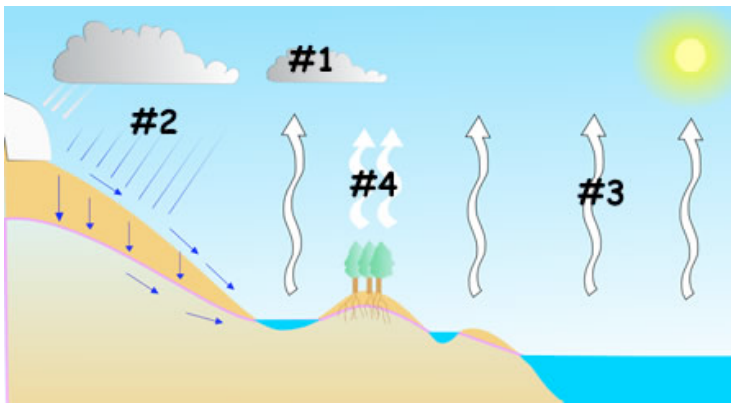
Missing from this food chain are

11. Examples of symbiotic relationships include
- 12.



Process #1 removes carbon dioxide from the atmosphere by means of

13.



The water cycle process labeled #2 is

14.



Assume that a human can choose from any of the three organisms above as a source of nutrition. Which of the food sources provides the most efficient transfer of energy from the sun to us?



Ants are known to protect, or "tend" aphids from predators, and in return receive some nutrients from the aphids. This relationship is an example of

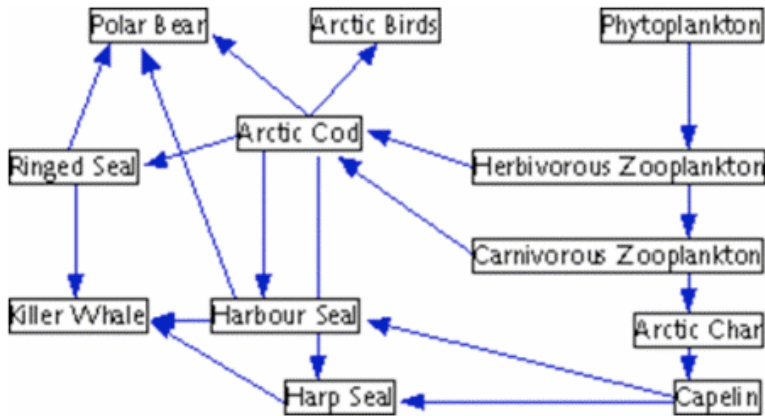
15. Which of the following is an example of a population?

16.



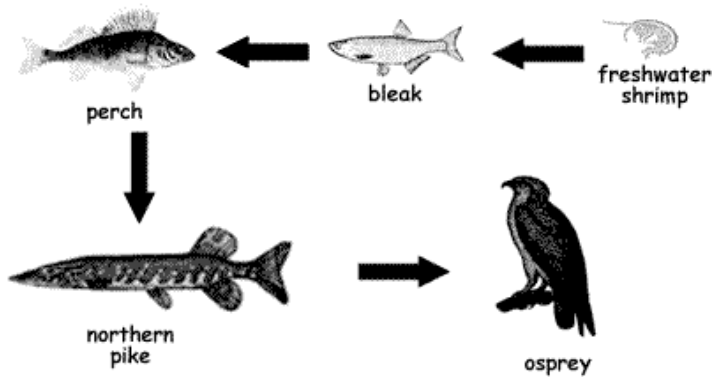
On the African savanna, large herbivores such as elephant and giraffe would be found in

18.



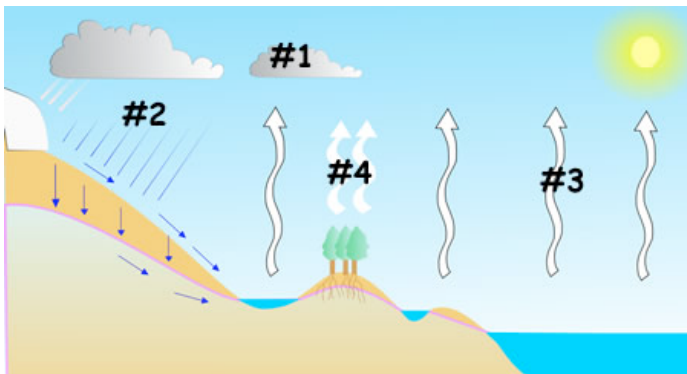
Which of the following has only ONE food source depicted in this web?

19.



Of the organisms depicted above, the one that would likely be found in the smallest number within the ecosystem is the

20.



As the air temperature increases, the rate of process #3 _____ and the rate of process #1 _____.

21.



Based on the diagram, the greatest amount of energy (and biomass) in a healthy ecosystem will be found in the

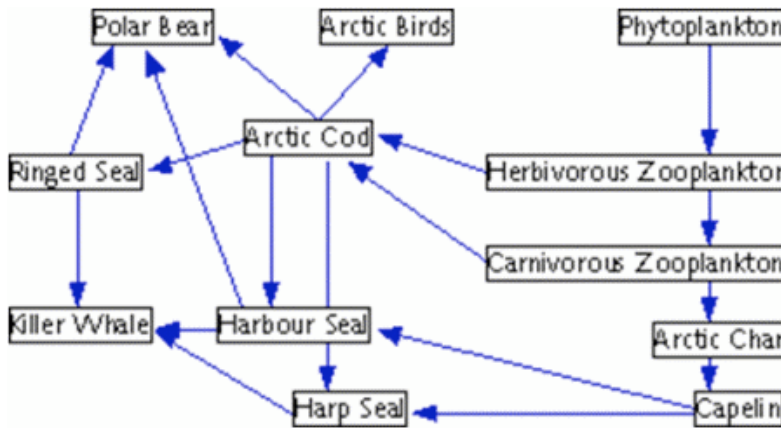
22. Which of the following is an example of a community?

23.



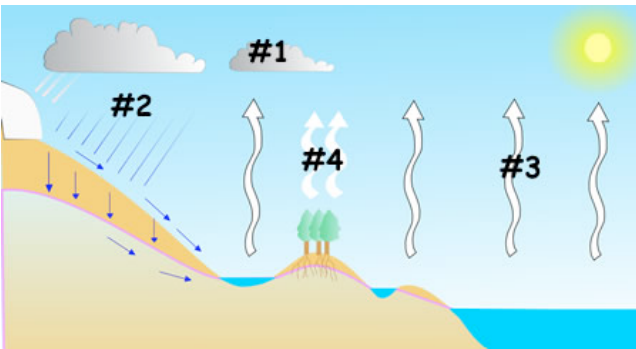
Bees collect nectar from flowers, and serve as pollinators for the plants. This relationship is an example of

24.



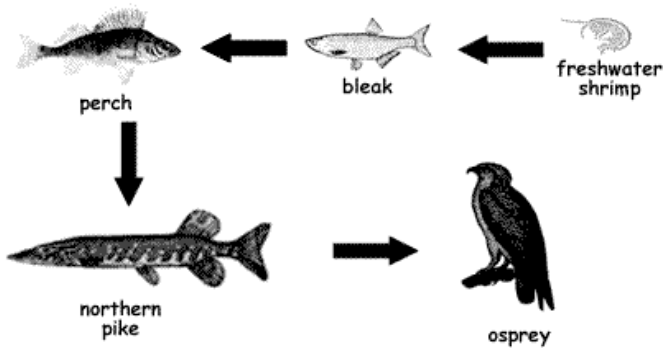
The most efficient transfer of energy to the arctic cod occurs when it feeds on

25.



The water cycle process labeled #3 is

26.

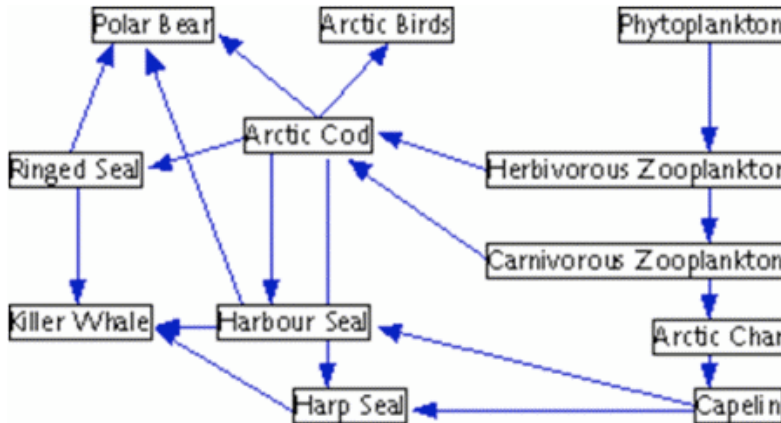


According to the 10% rule, compared to the osprey, the perch has



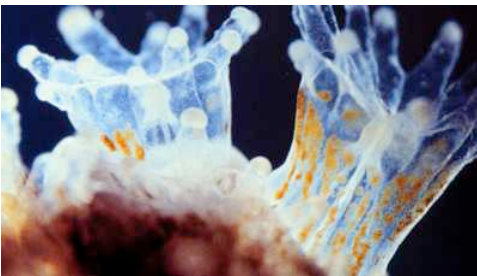
The caterpillar pictured here has wasp pupae attached that will hatch and then consume the caterpillar. This relationship is an example of

- 28. Deforestation has the effect of
- 29. Wastes and dead organisms from a food chain will be fed upon by
- 30.



Missing from this food web are

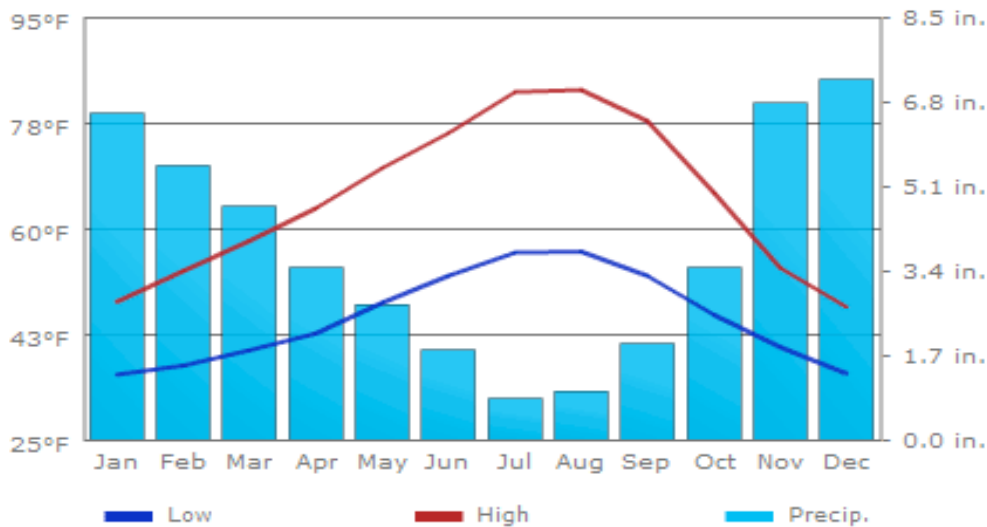
- 31. Food webs differ from food chains in that food webs
- 32. Organisms that obtain energy directly from photosynthesis are known as
- 33.



What type of symbiosis is shown here?
 What two organisms are interacting here?



37. What type of symbiosis is shown in this picture?
38. What two types of organisms are being shown in this picture?
39. The number of species found in a community is called
40. Most energy lost between each level of the food pyramid is in the form of
41. The percent of a community made up of one species is its
42. Why is studying ice cores important?
43. What is the relationship between carbon dioxide (CO₂) and atmospheric temperature?
44. What happens to the wind velocity of a hurricane as the water temperature under the hurricane increases?
45. What redistributes energy from the equator to the north and south poles?
46. Which of the following shows the structure of the biosphere in correct order from *smallest to biggest*?
47. What biome do we all live in?
48. Non-living factors that combine with living factors to create an ecosystem are called
49. Which of the following would NOT be found in a community?



50. This graph of temperature and rainfall versus month is called a