

1. The building of dams on the Nile River were designed to supply electricity and conserve flood waters for irrigation purposes. State 2 harmful effects that the building of these dams had on the Nile Valley ecosystem.

2. Living components of ecosystems are referred to as _____

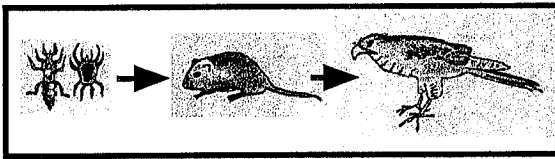
Non-living components are referred to as _____

3. Give an example of a micro-ecosystem. _____

Give an example of a macro-ecosystem. _____

4. Plants take in _____ and release _____.

5. The diagram below shows a simple _____.



In nature countless numbers of these can be intertwined to create a _____.

1. Some components of ecosystems are referred to as being abiotic.
Define abiotic and give 2 examples of abiotic components in an ecosystem.

Example 1 _____ Example 2 _____

2. Some components of ecosystems are referred to as being biotic.
Define biotic and give 2 examples of biotic components in an ecosystem.

Example 1 _____ Example 2 _____

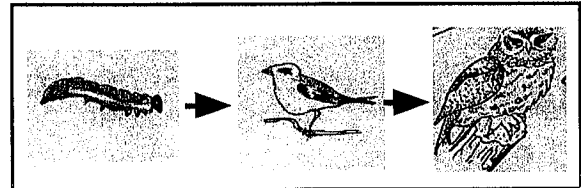
3. The process by which plants convert air, water, and sunlight into stored plant food in the form of carbohydrates is known as _____.

4. The tropical rainforests of the world are frequently referred to as carbon sinks.
Define the term 'carbon sink'.

5. The diagram on the right shows a simple

_____.

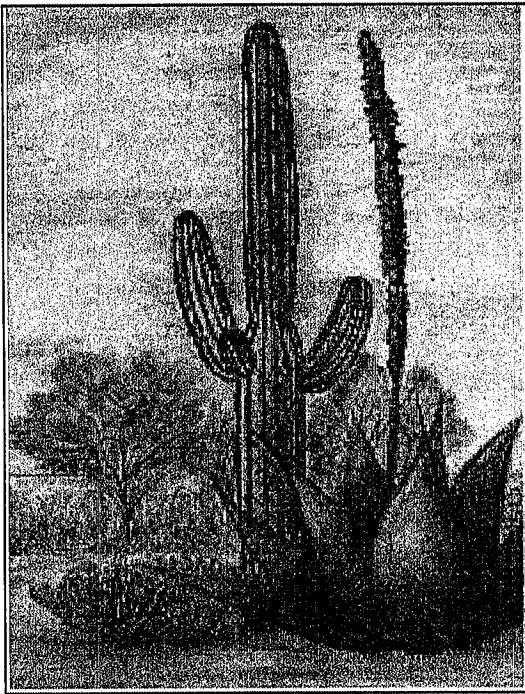
In nature countless numbers of these can be intertwined to create a _____.



1. Drought loving plants of the desert are referred to as _____.

2. Looking at the dense growth in the tropical rainforest one would assume that the soil is extremely fertile, but it is not. Explain how the rainforest plants can grow to such enormous size in soil that quickly drops in fertility when the plants are removed.

3. List three ways that plants have adapted to the climate conditions in the following biome.



Desert

- a. _____
- b. _____
- c. _____

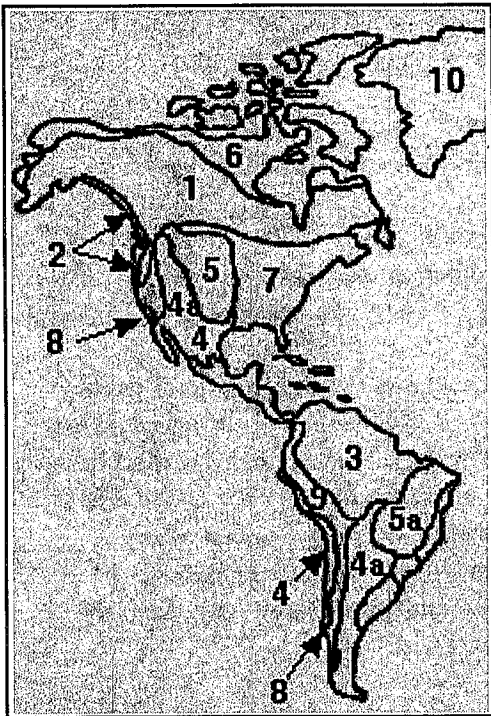
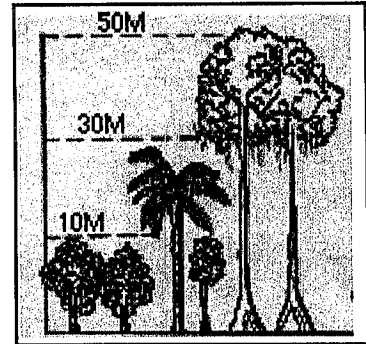
4. What are the 2 key climatic factors controlling vegetation growth in a biome?

5. Why do so many bird species migrate to the tundra in the spring to nest?

1. In the tropical savanna (grassland) only scattered trees can be seen in the endless expanse of grassland. Give 2 reasons why small seedlings have a difficult time surviving in this grassland biome.

2. List 3 ways that plants have adapted to the climate conditions in the tropical rainforest biome shown on the right.

- a. _____
- b. _____
- c. _____

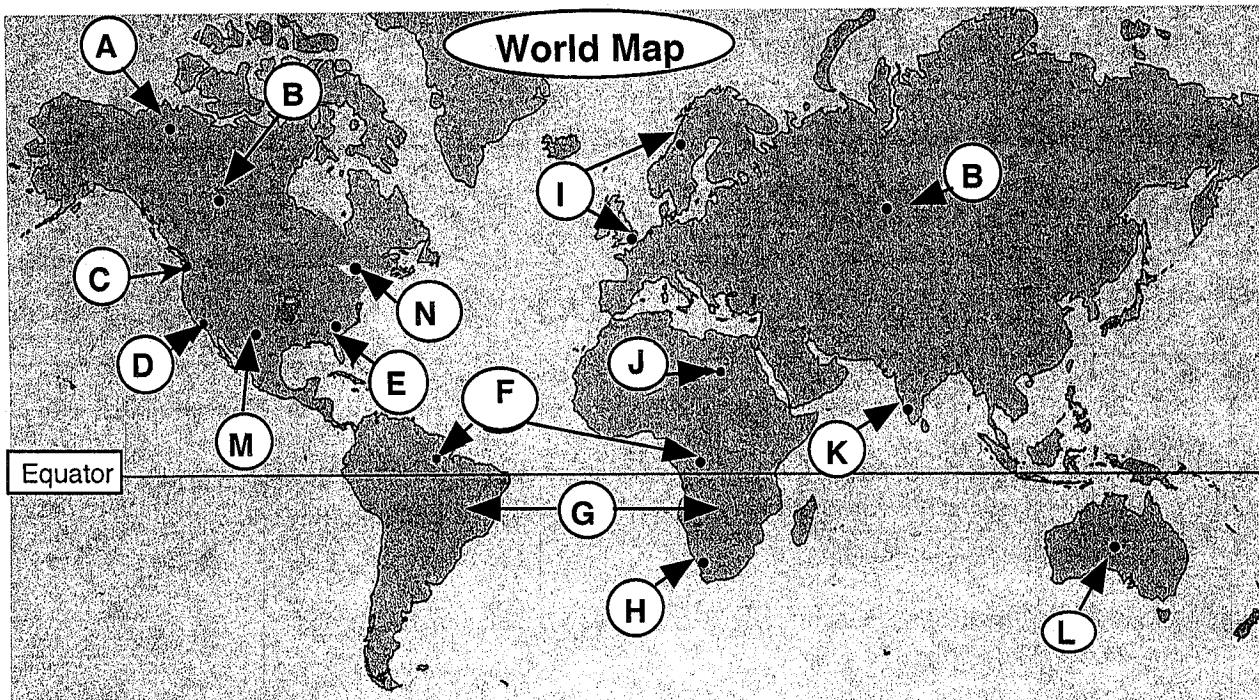


3. Name biome 1 in the diagram on the left.

4. List 2 ways that the plants in this biome have adapted to the climatic conditions.

- a. _____
- b. _____

5. The temperate grasslands of North America are called _____. In Russia they are called _____ and in South America they are called _____.



Refer to the above world map when answering the questions below

1. Name the climate region found at map location K. _____

2. Which location in North America has a desert climate? _____

3. List 3 climate controls that may play a role in creating a desert climate.
a. _____
b. _____
c. _____

4. List 2 ways that plants in location A have adapted to living in the cold conditions.

List 2 major threats to this biome .

5. Which climate region is found at locations marked B? _____

6. The annual temperature range at location B is great with bitterly cold winters and relatively warm summers. Account for the extreme temperature range in this region.

7. Much of the precipitation in this area comes in the form of convection rainfall during the summer months. Explain why.

8. At location H, the Namib Desert extends from the shores of the South Atlantic Ocean inland. What climate control is responsible for creating such dry conditions so close to an ocean?

9. Choose the location in North America that has a humid subtropical climate. _____
What is the natural vegetation of this region? _____

10. How has the vegetation in this region adapted to surviving the winter? _____

11. Which map location is associated with sclerophyll, maquis, chaparral vegetation, and average monthly temperatures that remain above 6° Celsius? _____

12. What is the natural vegetation at location C? _____

13. Savanna grassland is found at which map location? _____
Name 3 animals that you may see in the savanna grassland of Africa.

Why are there only scattered trees in this biome? _____

14. Name the biome found at map location L. _____

15. Name the climate type at location I? _____

16. At location I what climate control plays a role in moderating winter temperatures?

17. Location E is in the southeastern United States but still receives the occasional winter cold spell that can be accompanied by snow. Explain why it can get so cold in this area in winter. _____
