Quiz: The World of Plants: Plant Adaptation

Student Name: ________________________________

INSTRUCTIONS
Please answer each question carefully.

1. Which of the following is a way in which cacti are specialized to survive in their dry environment?

   ☐ A. They have a deep root system.
   ☐ B. They have extra chlorophyll to make energy faster.
   ☐ C. They have sharp needles to protect the plant.
   ☐ D. They have no leaves.

2. Which of the following is a way in which mangrove trees are specialized to survive in their wet environment?

   ☐ A. The leaves can often absorb nutrients from the air.
   ☐ B. They can live by floating on water and don’t need roots to anchor the plant.
   ☐ C. They have developed in such a way as to require very little oxygen.
   ☐ D. They often have special glands to excrete excess salt.

3. Which of the following is a characteristic you would expect to find on a plant living in a mangrove swamp, but not in the desert?

   ☐ A. plants that need much colder temperatures in a mangrove swamp than those plants found in deserts
   ☐ B. seeds that begin germination on the plant itself in a mangrove swamp, but not in desert seeds
   ☐ C. plants that need water in a mangrove swamp, but not in desert plants
   ☐ D. plants that need much less sunlight in a mangrove swamp than those plants found in deserts
4. Which of the following is NOT a common method used by plants to survive the dry desert?

- A. They avoid the dry season as seeds.
- B. They store water in thin broad leaves.
- C. They regulate their growth by remaining dormant in dry seasons.
- D. They have shallow roots that take water up quickly.

5. Which of the following is NOT considered one of the three basic needs of a plant?

- A. water
- B. food
- C. heat
- D. sunlight

6. When we say that a plant has adapted to its environment, what does that indicate?

- A. that the plant can get all the water it needs even if moved to a dry environment
- B. that the plant can grow and reproduce in any environment around the world
- C. that the plant can get everything it needs to grow and reproduce in its own environment
- D. that the plant is a flowering plant that can attract bees for pollination

7. What are the tube-like projections that rise up from the mangrove tree root in order to bring oxygen into the plant?

- A. branches
- B. prop root
- C. pneumatophore
- D. projectophore