Chapter 1 – Plant Growth and Development

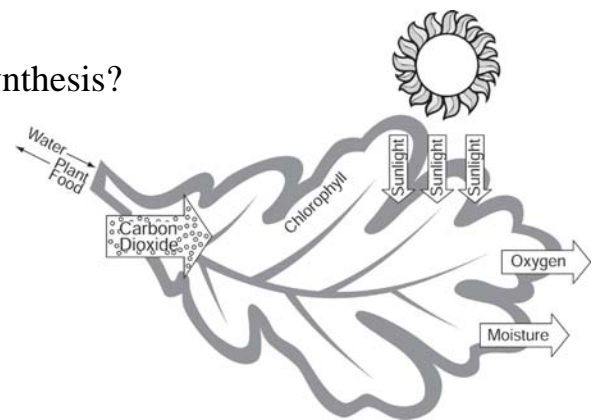**1**. Which sentence describes one of the jobs that roots do for the plant?

A. Roots create seed for the plant.

B. Roots produce food for the plant.

C. Roots absorb light from the sun.

D. Roots hold the plant in place.

2. What gas do plants give off during photosynthesis?

A. oxygen

B. water

C. sunlight

D. carbon dioxide

3. You can start a new plant from a seed or a cutting. This is called _____.

A. Plant propagation

B. Birth

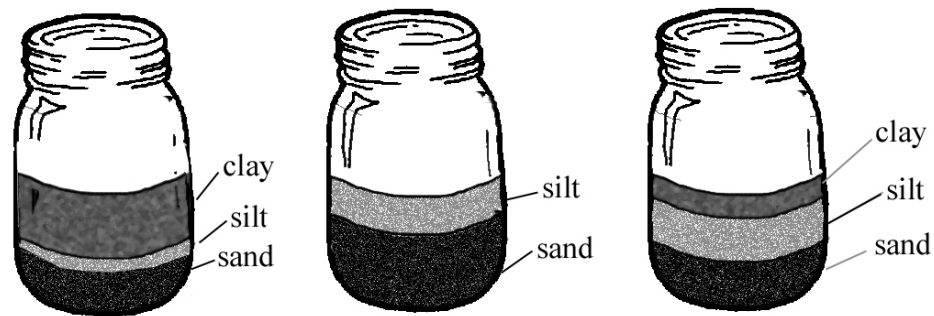**C**. Stemming

D. Growing

Chapter 2 – Soils and Water

1. Which jar shows a soil texture that would hold more water for plants to use?

A. The jar with the most clay.

B. The jar with the most sand.

C. The jar with more silt than clay.

D. All of the jars show a soil texture that hold enough water for plants.

2. What could you do to improve your soil to grow healthier plants?

A. Remove sand and add lots of water

B. Add sand

C. Add clay

D. Add compost to the soil

3. Which part of the water cycle does water change from a liquid to a gas?

A. condensation

B. precipitation

C. evaporation

D. run-off

Chapter 3 – Ecology and Environmental Horticulture

1. Which item below is the beginning of all food chains?

A. consumers

B. animals

C. water

D. plants

2. What would probably happen after 10 cups of fertilizer were sprinkled on the soil all at one time around a plant and then the plant was watered?

A. the plant could grow much taller from the extra nutrients

B. the soil could become polluted and harm the plant and animals nearby

C. the size of the plant would not change

D. the soil would give the plant only what it needs

3. What is a way that I can help the environment?

   A. Recycle paper and plastic

   B. Select plants that grow well in my county

   C. Use worms to recycle food waste
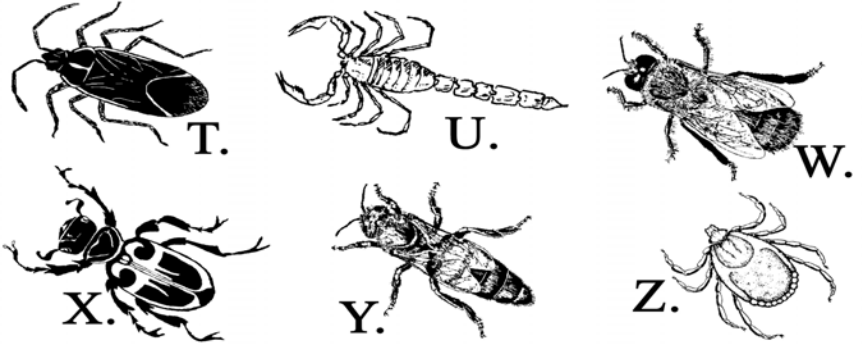
   D. All of the above

Chapter 4 – Insects and Diseases

1. These creatures were captured with an insect trap. Which of the creatures prove that the trap does not just capture insects?

A. T, X, Z

B. W, Y

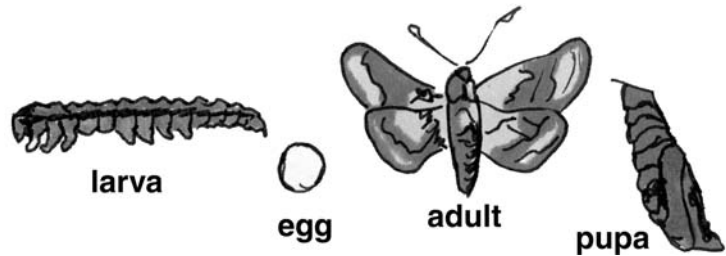**C.** T, W, X, Y

D. U, Z

2. The picture below shows the different stages of metamorphosis of an insect. What is the correct order from start to finish?

A. egg, pupa, adult, larva

B. egg, larva, pupa, adult

C. pupa, egg, adult, larva

D. pupa, egg, larva, adult

3. When you notice insects on a plant, it is important to

A. find out if the insect is harmful or helpful to the plant

B. kill insects by using a pesticide

C. remove insects safely by knocking them off with a strong water spray

D. allow insects to remain on plant to pollinate flowers

Chapter 5 – Landscape Horticulture

1. Trees save energy and money because they

   A. Provide shade

   B. Drink lots of water

   C. Attract insects

   D. All of the above

2. An annual plant is

   A. A plant that grows all year long

   B. A plant that grows back every year

   C. A plant that must be planted each year

   D. A plant that lives only one week

3. Adding mulch around your plants

   A. Conserves water

   B. Makes a hiding place for bugs

   C. Is too expensive

   D. Is harmful to the environment

Chapter 6 – Fruits and Nuts

1. A fruit starts out as a

   A. Twig

   B. Root

   C. Stem

   D. Flower

2. Which of the following is NOT made from a fruit or nut?

   A. Jelly

   B. Peanut butter

   C. Butter

   D. Raisins

3. Seeds can travel to new locations when fruit

   A. Is eaten by animals

   B. Drops to the ground and decays

   C. Floats on water

   D. All of the above

Chapter 7 –Vegetables and Herbs

1. A garden should receive

    A. 30 minutes of sunlight every day

    B. 1 hour of sunlight every day

    C. 2-3 hours of sunlight every day

    D. At least 6 hours of sunlight every day

2. You should eat at least___ servings of fruits and vegetables each day.

    A. One

    B. Five

    C. Three

    D. Twelve

3. To choose a healthy snack, look at the food label and select the snack that is

    A. Low in fiber

    B. High in fat

    C. High in Vitamin A&C

    D. High in sugar