# Plant Conservation Module Test
# (90 points)

Name: _____

Part I. Flower Parts: Please match the flower part to its description (20 pts.)

_____ 1. Where the pollen is produced

_____ 2. Food for the baby plant

_____ 3. The female part of the flower

_____ 4. The male part of the flower

_____ 5. Becomes a fruit

_____ 6. Attracts pollinators

_____ 7. Where pollen is supposed to land

_____ 8. What is transferred by insects during pollination

_____ 9. What the anther is on

_____ 10. Becomes a seed when fertilized

A. Ovule or Egg

B. Ovary

C. Anther

D. Endosperm

E. Petal

F. Stamen

G. Filament

H. Carpal

I. Stigma

J. Pollen

Part II: Pollination

Please state what you think pollinates the following flowers and why. (20 points: 2 points for each correct pollinator and 3 points for each correct explanation)

1. Flower is red, scentless, bell-like in shape, stamens dangle outside the flower.

Pollinator: _____

Why: _____

2. No petals, no scent, stamens and carpals dangle in the air

Pollinator: _____

Why: _____

3. Small, white, sweet scent, nectar kept at the bottom of a narrow spur or tube

Pollinator: _____

Why: _____

4. Large, white, bowl-shaped, sweet scent, blooms at night at end of high branches

Pollinator: _____

Why: _____

5. Maroon or brownish in color, foul smell

Pollinator: _____

Why: _____

Part III: Seed Dispersal

1. Please name a fruit that is dispersed by the following and explain how each one is dispersed. (20 points: 2 points for each correct fruit and 3 points for each correct explanation)

**1. Squirrel**

- Fruit Example: _____
- How squirrel disperses the fruit: _____

**2. Hairy animal like a pet dog**

- Fruit Example: _____
- How dog disperses the fruit:_____

**3. A songbird like a robin**

- Fruit Example: _____

- How bird disperses the fruit: _____

**4. Wind**

- Fruit Example: _____

- How the fruit is suited to wind dispersal: _____

5. Driving to Disney World in Florida, you pass orange groves with fruit hanging from the branches

   A. Have the orange trees produced flowers? (3 pts.) Please check one space.

      _____ Yes _____ No _____ Not enough evidence

   B. If they have produced flowers, have they been pollinated? (3 pts.) Please check one space.

      _____ Yes _____ No _____ Not enough evidence

Part IV: Conservation

Please give three reasons why people are concerned about the loss of plant diversity (4 points each)

1._____

2. _____

3. _____

Please list three ways in which people are reducing plant diversity (4 points each)

1. _____

2. _____

3. _____

# Plant Conservation Test Answers

Part I: Flower Parts

Please match the flower part to its description (20 pts.)

___C__ 1. Where the pollen is produced

__D___ 2. Food for the baby plant

__H___ 3. The female part of the flower

__F___ 4. The male part of the flower

__B___ 5. Becomes a fruit

__E___ 6. Attracts pollinators

__I___ 7. Where pollen is supposed to land

__K___ 8. What is transferred by insects during pollination

__G___ 9. What the anther is on

___A__ 10. Becomes a seed when fertilized

A. Ovule or Egg

B. Ovary

C. Anther

D. Endosperm

E. Petal

F. Stamen

G. Filament

H. Carpal

I. Stigma

J. Pollen

Part II: Pollination

Please state what you think pollinates the following flowers and why (2 points for each correct pollinator and 3 points for each correct explanation.)

1. Flower is red, scentless, bell-like in shape, stamens dangle outside the flower.

   Pollinator: Hummingbird

   Why: Red, scentless, tubular in shape

2. No petals, no scent, stamens and carpals dangle in the air

   Pollinator: Wind

   Why: No petals, no scent, dangle in the open

3. Small, white, sweet scent, nectar kept at the bottom of a narrow spur or tube

   Pollinator: Moth

   Why: White, sweet-scented, spur in back of flower for nectar

4. Large, white, bowl-shaped, sweet scent, blooms at night at end of high branches

   Pollinator: Bat
   Why: large, white, exposed on ends of branches, found in southwestern United States

5. Maroon or brownish in color, foul smell

   Pollinator: Fly or carrion beetle

   Why: Maroon or brown in color, foul scent

Part III: Seed Dispersal

Please describe a fruit that is dispersed by the following and explain how each one is dispersed. (2 points for each correct fruit; 3 points for each correct explanation)

1. Squirrel

   - Fruit Example: Any species of nut
   - How squirrel disperses the fruit: Buries the nut and does not retrieve it

2. Hairy animal like a pet dog

   - Fruit Example: Burdock or cocklebur
   - How dog disperses the fruit: Fruit sticks to fur

3. A songbird like a robin

   - Fruit Example: Berry
   - How bird disperses the fruit: Eats fruit, disperses seeds in its wastes

4. Wind

- Fruit Example: dandelion, milkweed, “helicopters” of maple, ash, elm, etc.
- How the fruit is suited to wind dispersal: <u>Very light, Design catches the wind and enables fruits to move long distances.</u>

5. Driving to Disney World in Florida, you pass orange groves with fruit hanging from the branches.

Have the orange trees produced flowers? (3 pts.) Please check one space.

__X___ Yes _____ No _____ Not enough evidence

If they have produced flowers, have they been pollinated? (3 pts.) Please check one space.

__X___ Yes _____ No _____ Not enough evidence

<u>Part IV: Conservation</u>

Please give three reasons why people are concerned about the loss of plant diversity (4 points each)

1._____Practical reasons_____

2. _____Ecological reasons_____

3. _____Aesthetic and emotional reasons_____

Please list three ways in which people are reducing plant diversity (4 points each)

1. _____Habitat Destruction, Alien Species, _____

2. _____Overharvesting, Pollution, Climate Change_____

3. _____