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**MASTER GARDENER HOMEWORK DUE AUGUST 2, 2010**

Topics: "EARTH-KIND™ and WaterWise Herb Gardening" and: "Plant Propagation"  
Reading Assignment: Texas **Master Gardener Handbook**, Pgs. 1-12 through 1-36; Pgs. 6-43 to 6-47; and Handouts: Texas AgriLife Extension Service: "Landscape Water Conservation ...Xeriscape™" and **Lone Star Gardening**: "Specialty catalogs offer seeds of inspiration"

1. Match the following:

- A. Sexual Plant Propagation
- B. Asexual Plant Propagation
- C. Plant propagation

- \_\_\_ 1. Process of multiplying the numbers of a species, perpetuating a species or maintaining the youthfulness of a plant.
- \_\_\_ 2. A part of a single parent plant is made to regenerate itself into a new plant that is genetically identical to the parent plant.
- \_\_\_ 3. Involves the union of the pollen from the male with the egg from the female in order to produce a seed.

2. Match the following:

- A. Layering
- B. Cuttings
- C. Grafting

- \_\_\_ 1. A vegetative plant part that is severed from the parent plant in order to regenerate itself.
- \_\_\_ 2. Stems still attached to their parent plants may form roots where they touch rooting medium.
- \_\_\_ 3. Asexual plant propagation that joins plant parts so they will grow as one plant.

3. Leaf shape, plant size, flower color and other factors have been tried as means to identify plants, but Linnaeus showed that plant identification is best accomplished by examination of \_\_\_\_\_ or reproductive parts.

4. List the environmental factors affecting seed germination.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

5. Match the following techniques for breaking seed dormancy.

- |       |    |                                              |    |                |
|-------|----|----------------------------------------------|----|----------------|
| _____ | 1. | Chill the seeds in a moist medium.           | A. | Scarification  |
| _____ | 2. | Nick the seed coat with a file or sandpaper. | B. | Stratification |

6. Name five seeds that germinate best in the dark: (2 points each)

\_\_\_\_\_

\_\_\_\_\_

7. Herbs that are suited to growing in pots include: (circle all that apply)

- A. Basil
- B. Chives
- C. Parsley
- D. Dill

8. List four benefits of adding mulch to your landscape beds:

\_\_\_\_\_

\_\_\_\_\_

9. List the seven basic principles that lead to saving water:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10. The greatest waste of water is: \_\_\_\_\_