Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Plant Anatomy Review

***Directions:*** Match terms associated with plant growth and development to the correct definitions.

1. \_\_\_\_\_ Union of the male (pollen) nucleus with the female

(egg) cell

1. Bud
2. Dicot
3. Embryo
4. Epicotyl
5. Fertilization
6. Hypocotyl
7. Internode
8. Leaf scar
9. Monocot
10. Node
11. Ovary
12. Phloem
13. Pistil 12. Stamen
14. Pollination
15. Radicle
16. Stamen
17. Vascular bundle scar
18. Xylem
19. \_\_\_\_\_ Plant having two seed leaves

1. \_\_\_\_\_ The part of a stem between two nodes

1. \_\_\_\_\_ Vascular tissue that transports water and minerals

from the root system to the leaves

1. \_\_\_\_\_ Seed bearing organ of a flower; composed of ovary,

style and stigma

1. \_\_\_\_\_ Plant having one seed leaf
2. \_\_\_\_\_ The part of a stem where a leaf is attached

1. \_\_\_\_\_ Transfer of pollen from the anther to the stigma

1. \_\_\_\_\_ Part of the flower which produces the pollen;

composed of the filament and anther

1. \_\_\_\_\_ The flower structure where seeds develop
2. \_\_\_\_\_ Vascular tissue that conducts food from the

leaves to regions of growth or storage

Seeds

1. Select from the following list factors that cause poor seed germination. Write an "X" in the blank before each correct answer.

\_\_\_\_\_a. Number of seeds per pound

\_\_\_\_\_b. Seeds planted too deeply in soil

\_\_\_\_\_c. Presence of hardpan in root zone

\_\_\_\_\_d. Fungal disease

\_\_\_\_\_e. Low soil temperature

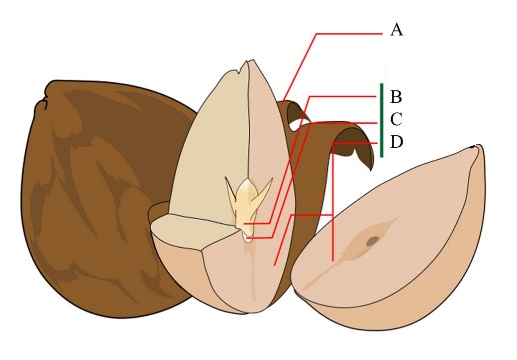
\_\_\_\_\_f. Low soil moisture

\_\_\_\_\_g. Damaged seed

\_\_\_\_\_h. Deficiency of nutrients in soil

\_\_\_\_\_i. Period of time between harvesting and planting of seed

\_\_\_\_\_j. Conditions under which seed is stored



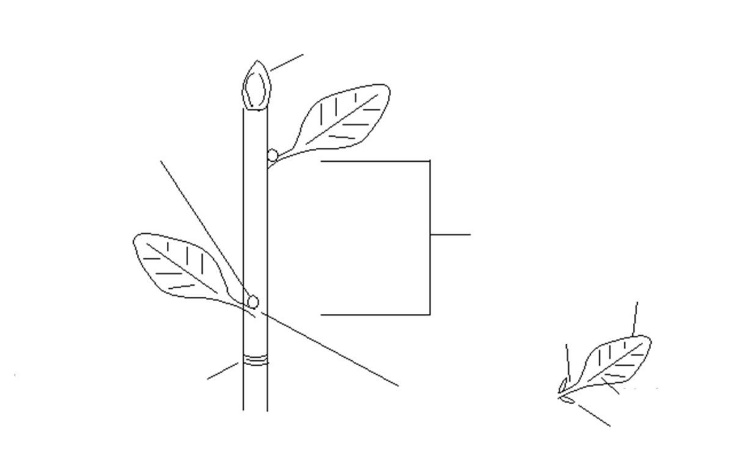
13. Label the anatomy of a seed

Roots

14. Name two types of root systems.

15. List the purpose of each part of the root

1. Apical meristem \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Root Cap \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Epidermis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Root Hairs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Xylem \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Phloem \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Stems

1. What is the purpose of a stem?
2. List 4 types of modified stems
3. Label the stem picture to the right.

Leaves

1. What are the functions of leaves?
2. List 3 types of leaf attachment

Flowers

1. What is the difference between a complete flower and incomplete flower?
2. What is the difference between a perfect flower and imperfect flower?
3. Be prepared to label the parts of a flower!

Fruits

1. What is the scientific definition of a fruit?
2. The skin of the fruit is considered the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Give 3 examples of a fleshy pericarp
4. Give 3 examples of a dry pericarp
5. Give 3 examples of aggregate fruits
6. What is the difference between a drupe and a pome?